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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: SHENGJUN WANG Examiner #: 77601 Date: 10-31-01
 Art Unit: 1617 Phone Number 30 8-85-64 Serial Number: 09/721291
 Mail Box and Bldg/Room Location: CA1121319 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fat finding polymers

Inventors (please provide full names): Jozeffink et al

Earliest Priority Filing Date: 07/14/1999

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the polymers

defined in claims 1, 19, 71, 73, 75, 76
 and the polymer employed in claim 22.

⑦ employment of the above polymers for treating

⑥ obesity ⑧ hypertriglyceridemia ⑨ steatorrhea
 and ⑩ for reducing the absorption of dietary fat

See attached claims

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Date Searcher Picked Up: _____

Date Completed: 11/8/1

Searcher Prep & Review Time: _____

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Type of Search

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Structure (#) 1

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Fulltext _____

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Other _____

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WWW/Internet _____

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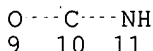
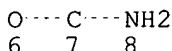
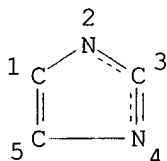
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HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

Searched by: Mary Hale 308-4258 CM-1 12D16

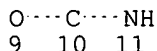
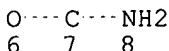
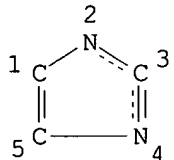
STEREO ATTRIBUTES: NONE
L2 SCR 2043 *polymer screen*
L4 0 SEA FILE=REGISTRY SSS FUL L1 AND L2

100.0% PROCESSED 811 ITERATIONS
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0 ANSWERS

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L2 SCR 2043
L5 STR



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L7 63 SEA FILE=REGISTRY SSS FUL L5 AND L2

100.0% PROCESSED 811 ITERATIONS
SEARCH TIME: 00.00.01

63 ANSWERS

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L9 0 FILE BIOSIS
L10 0 FILE EMBASE
L11 0 FILE MEDLINE

TOTAL FOR ALL FILES

Searched by: Mary Hale 308-4258 CM-1 12D16

L12

7 L7 AND (OBES? OR OVERWEIGHT OR WEIGHT)

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L12 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2001 ACS

2001:468203 Document No. 135:66201 Conjugates targeted to the interleukin-2 receptor. Prakash, Ramesh K.; Clemens, Christopher M. (Watson Laboratories, Inc., USA). U.S. US 6251866 B1 20010626, 22 pp., Cont.-in-part of U.S. Ser. No. 914,042, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1998-128572 19980804. PRIORITY: US 1997-914042 19970805.

AB A compn. for intracellular delivery of a chem. agent into an interleukin-2-receptor-bearing cell, e.g. an activated T cell, includes a chem. agent and at least one copy of an interleukin-2-receptor-binding and endocytosis-inducing ligand coupled to a water sol. polymer. The ligand binds to a receptor on the interleukin-2-receptor-bearing cell and elicits endocytosis of the compn. The compn. also preferably includes a spacer for coupling the chem. agent and the ligand to the polymer. Chem. agents can include cytotoxins, transforming nucleic acids, gene regulators, labels, antigens, drugs, and the like. A preferred water sol. polymer is a polyalkylene oxide, such as polyethylene glycol and polyethylene oxide, and activated derivs. thereof. The compn. can further comprise a carrier such as another water sol. polymer, liposome, or particulate. Methods of using these compns. for delivering a chem. agent in vivo or in vitro are also disclosed. A method of detecting a disease, such as T-cell lymphocytic leukemia, T-cell acute lymphoblastic leukemia, peripheral T-cell lymphoma, Hodgkin's disease, or non-Hodgkin's lymphoma, assocd. with elevated levels of sol. IL-2 receptor is also disclosed.

IT 345904-21-4DP, reaction product with adriamycin

345904-23-6DP, reaction product with adriamycin

345904-24-7DP, reaction product with adriamycin

345904-25-8DP, reaction product with adriamycin

345904-26-9DP, reaction product with adriamycin

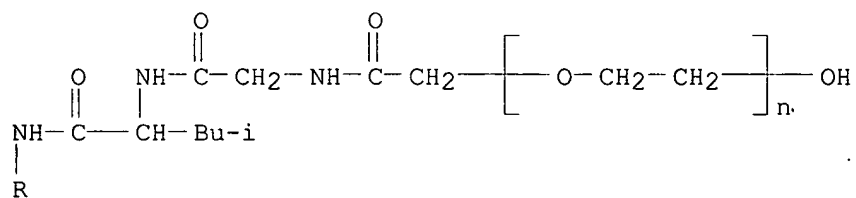
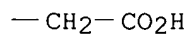
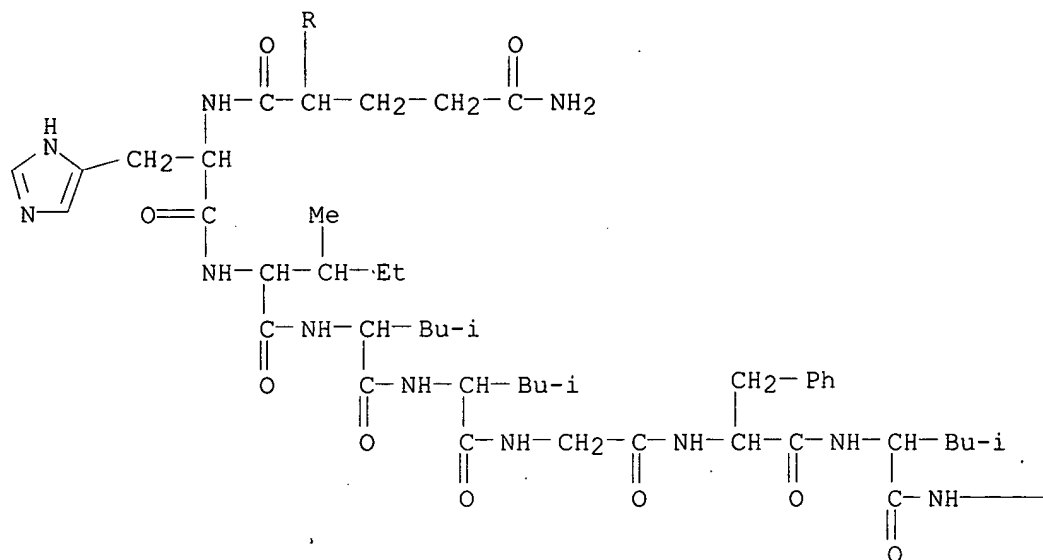
RL: BAC (Biological activity or effector, except adverse); PNU

(Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(peptide conjugates targeted to the interleukin-2 receptor)

RN 345904-21-4 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with hydroxyacetylglucyl-L-leucyl-L-glutaminy-L-histidyl-L-isoleucyl-L-leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)

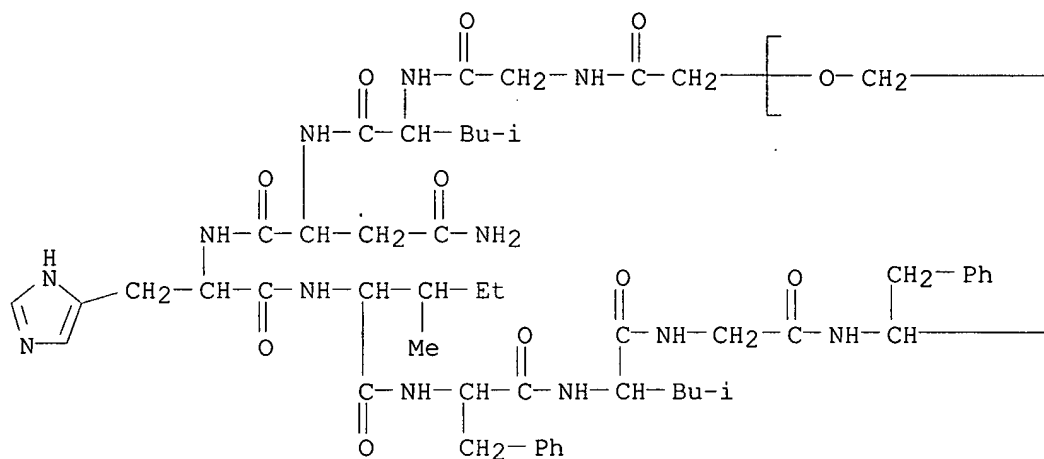


RN 345904-23-6 CAPLUS

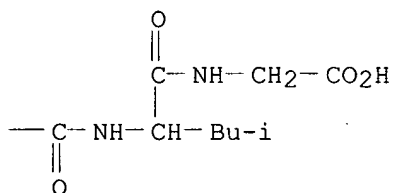
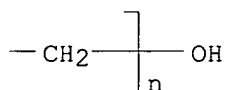
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with

hydroxyacetylglucyl-L-leucyl-L-asparaginy-L-histidyl-L-isoleucyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)

PAGE 1-A

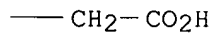
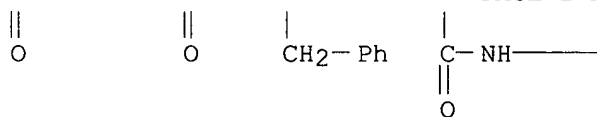
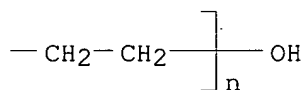
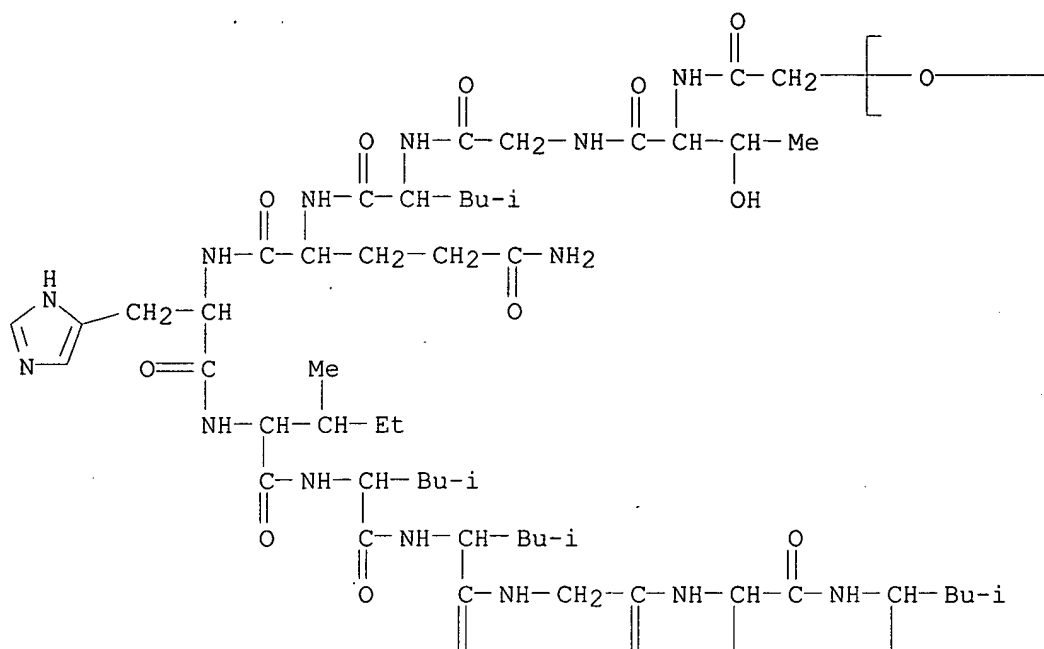


PAGE 1-B

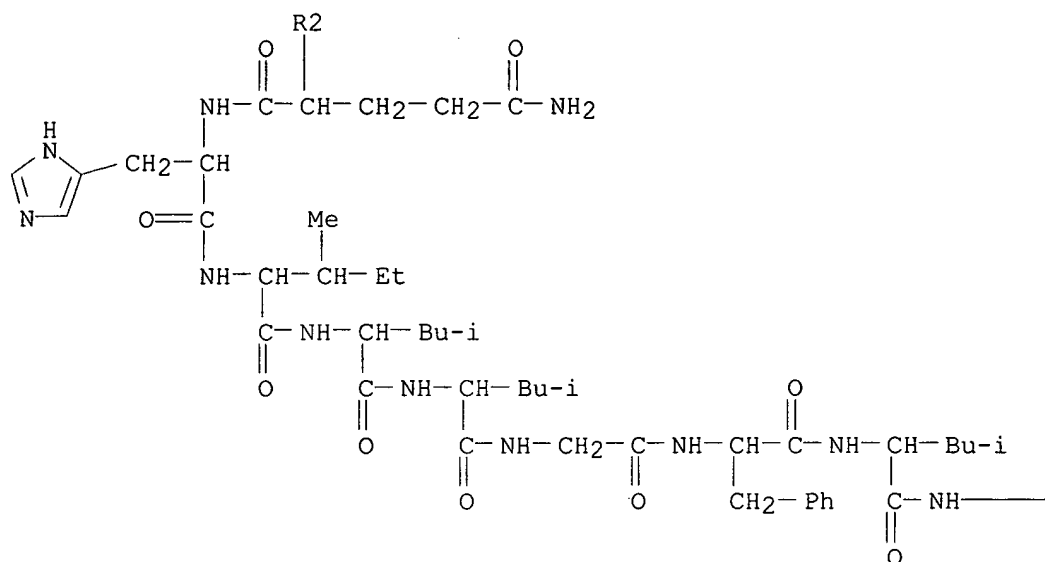


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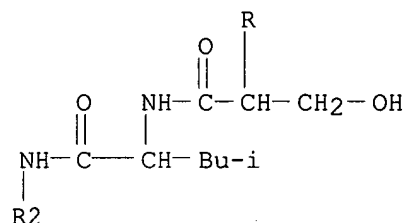
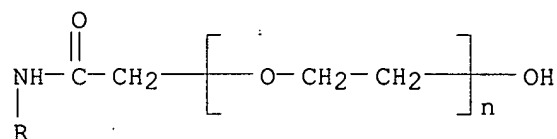
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-ether with hydroxyacetyl-L-threonylglycyl-L-leucyl-L-glutaminyl-L-histidyl-L-isoleucyl-L-leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)



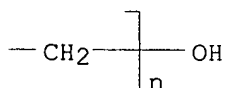
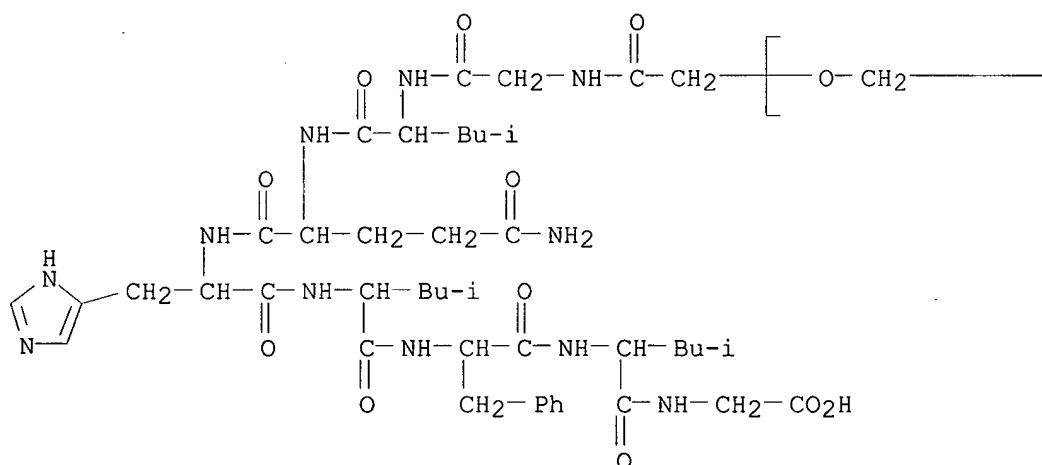
RN 345904-25-8 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-ether with
 hydroxyacetyl-L-seryl-L-leucyl-L-glutaminyl-L-histidyl-L-isoleucyl-L-
 leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX
 NAME)



— CH₂— CO₂H



| | | |
|----|---|--------|
| RN | 345904-26-9 | CAPLUS |
| CN | Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with hydroxyacetylglucyl-L-leucyl-L-glutaminyl-L-histidyl-L-leucyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME) | |



L12 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2001 ACS
2000:513736 Document No. 133:140235 Preparation of ionic molecular
conjugates of biodegradable polyesters and bioactive peptides. Shalaby,
Shalaby W.; Jackson, Steven A.; Moreau, Jacques-Pierre (Biomeasure
Incorporated, USA; Poly-Med). PCT Int. Appl. WO 2000043435 A1 20000727,
46 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY,

CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US1753 20000126. PRIORITY: US 1999-237405 19990126.

AB A sustained-release pharmaceutical compn. includes a polyester contg. a free COOH group ionically conjugated with a bioactive peptide comprising at least 1 effective ionogenic amine, wherein at least 50% by wt . of the peptide present in the compn. is ionically conjugated to the polyester. Thus, a rod delivery system was obtained by synthesizing the citric acid ester of .epsilon.-caprolactone-glycolide copolymer followed by treatment with the peptide, LHRH acetate. The ionic conjugate and the polymer were melted and the melted materials was extruded into rods.

IT **286411-58-3P**, Glycolic acid-L-lactide-malic acid copolymer salt with D-Trp6[LHRH] **286427-80-3P**, Glycolic acid-L-lactic acid-malic acid copolymer salt with D-Trp6[LHRH] **286427-84-7P**, .epsilon.-Caprolactone-Glycolide copolymer ester with citric acid salt with LHRH acetate

RL: DEV (Device component use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of ionic mol. conjugates of biodegradable polyesters and bioactive peptides)

RN 286411-58-3 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-D-tryptophan-, compd. with (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione polymer with hydroxyacetic acid and hydroxybutanedioic acid (9CI) (CA INDEX NAME)

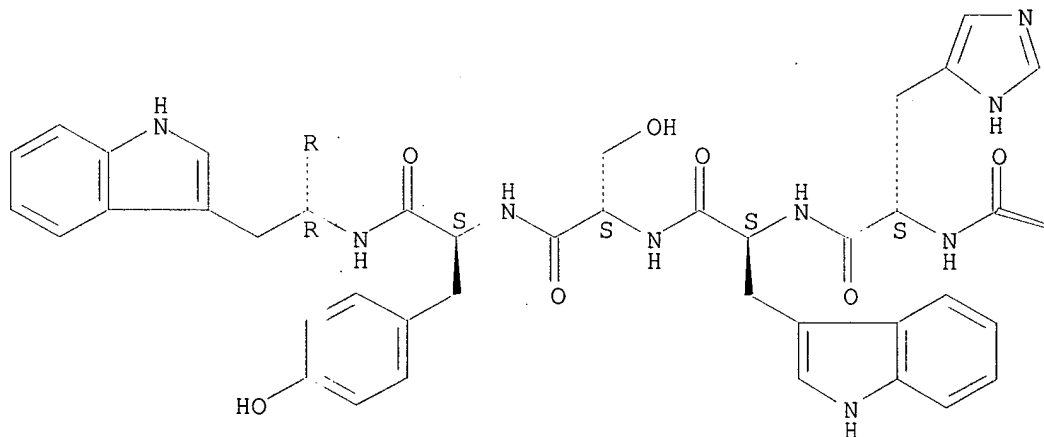
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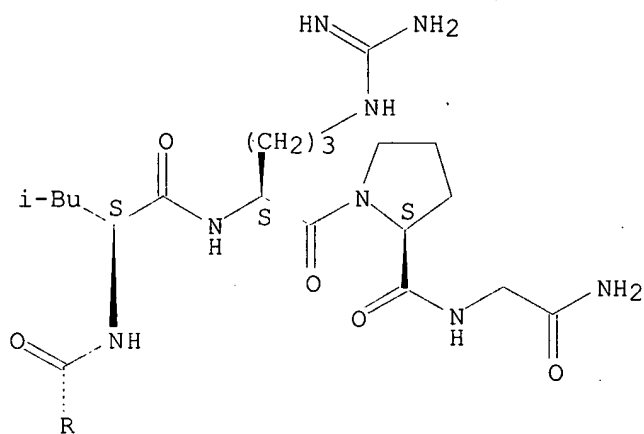
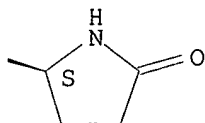
CRN 57773-63-4

CMF C64 H82 N18 O13

Absolute stereochemistry. Rotation (-).

PAGE 1-A



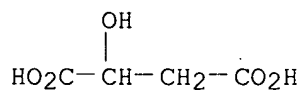


CM 2

CRN 158054-06-9
CMF (C6 H8 O4 . C4 H6 O5 . C2 H4 O3) x
CCI PMS

CM 3

CRN 6915-15-7
CMF C4 H6 O5

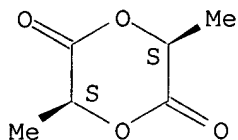


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CRN 4511-42-6
CMF C6 H8 O4
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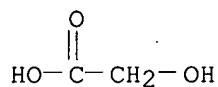
Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



CM 5

CRN 79-14-1
CMF C2 H4 O3



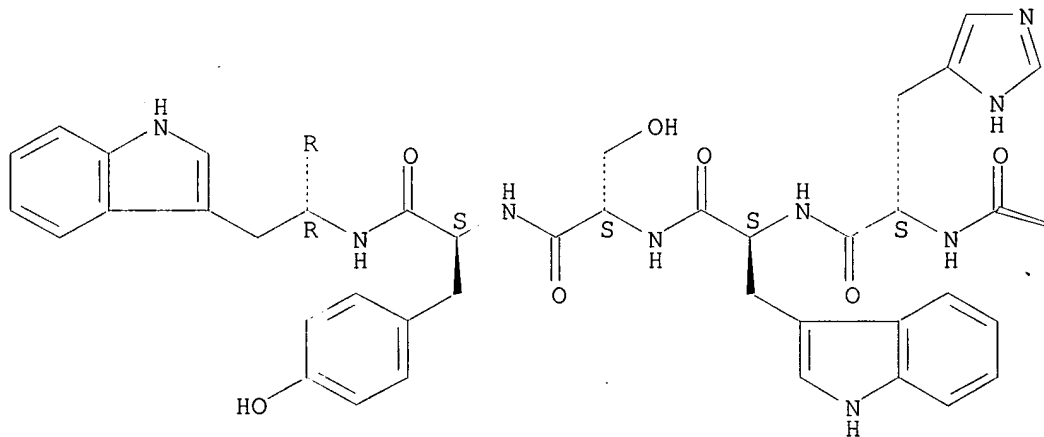
RN 286427-80-3 CAPLUS
CN Luteinizing hormone-releasing factor (swine), 6-D-tryptophan-, compd. with
hydroxyacetic acid polymer with (2S)-2-hydroxypropanoic acid
hydroxybutanedioate (9CI) (CA INDEX NAME)

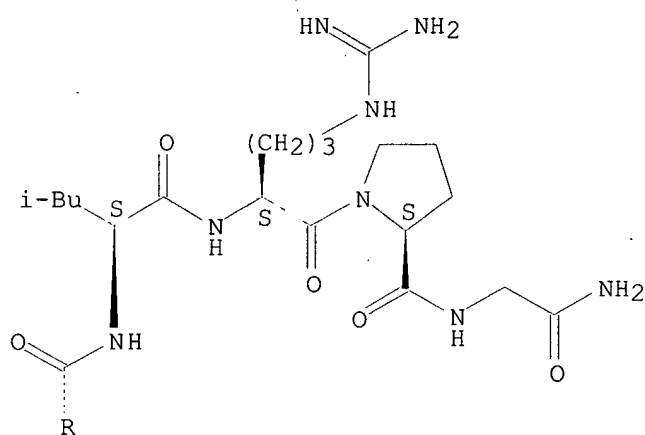
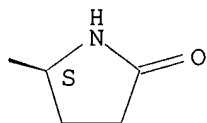
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CRN 57773-63-4
CMF C64 H82 N18 O13

Absolute stereochemistry. Rotation (-).

PAGE 1-A





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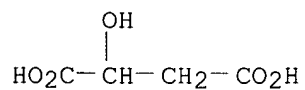
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CDES 8:GD

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CRN 6915-15-7

CMF C4 H6 O5



CM 4

CRN 54512-07-1

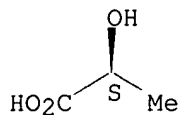
$$\text{CMF} \quad (\text{C3 H6 O3} \cdot \text{C2 H4 O3})_x$$

CCI PMS

CM 5

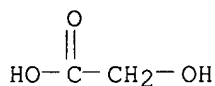
CRN 79-33-4
CMF C3 H6 O3

Absolute stereochemistry. Rotation (+).



CM 6

CRN 79-14-1
CMF C2 H4 O3



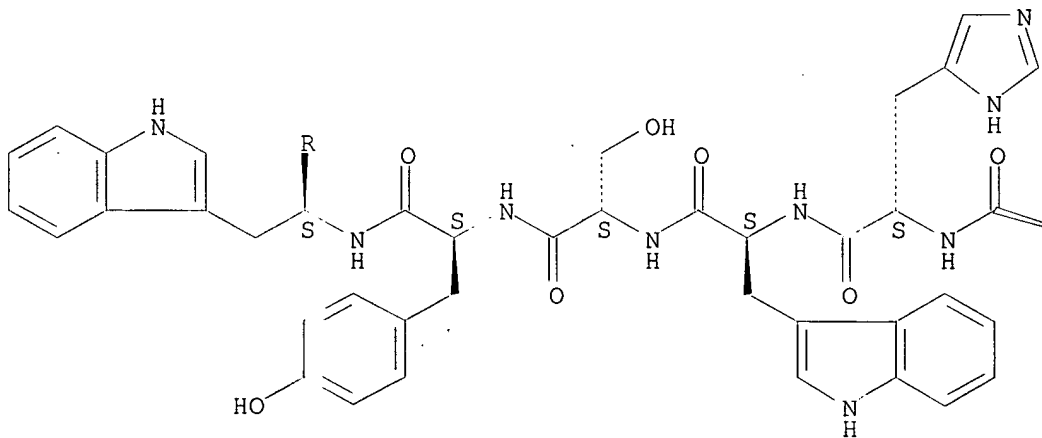
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CN Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with 1,4-dioxane-2,5-dione polymer with 2-oxepanone 2-hydroxy-1,2,3-propanetricarboxylate (9CI) (CA INDEX NAME)

CM 1

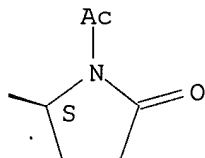
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CMF C66 H84 N18 O14

Absolute stereochemistry.

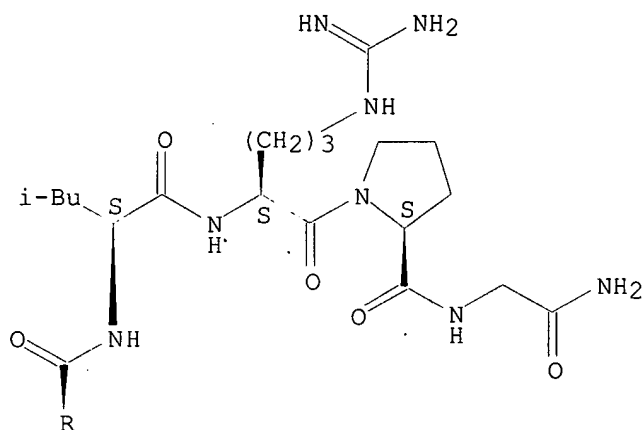
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PAGE 1-B



PAGE 2-A



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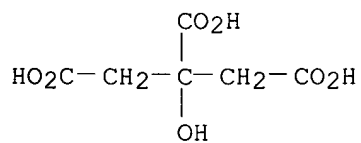
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CDES 8:GD

CM 3

CRN 77-92-9

CMF C6 H8 O7



CM 4

CRN 41706-81-4

CMF (C6 H10 O2 . C4 H4 O4)x

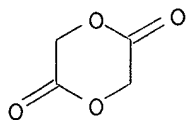
CCI PMS

Searched by: Mary Hale 308-4258 CM-1 12D16

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CRN 502-97-6

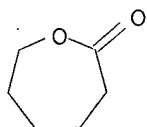
CMF C4 H4 O4



CM 6

CRN 502-44-3

CMF C6 H10 O2



IT **286427-86-9P**, .epsilon.-Caprolactone-Trimethylene carbonate
copolymer ester with tartaric acid salt with LHRH acetate
286427-88-1P, .epsilon.-Caprolactone-glycolide copolymer ester
with tartaric acid salt with LHRH acetate
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of ionic mol. conjugates of biodegradable polyesters and
bioactive peptides)
RN 286427-86-9 CAPLUS
CN, Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-
tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with
1,3-dioxan-2-one polymer with 2-oxepanone (2R,3R)-2,3-
dihydroxybutanedioate (9CI) (CA INDEX NAME)

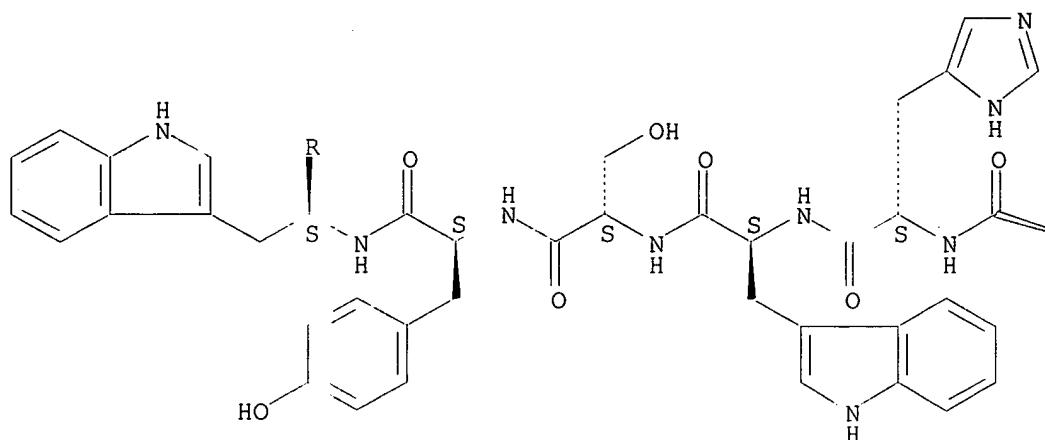
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CRN 286427-83-6

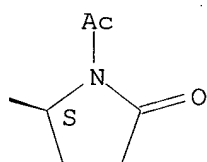
CMF C66 H84 N18 O14

Absolute stereochemistry.

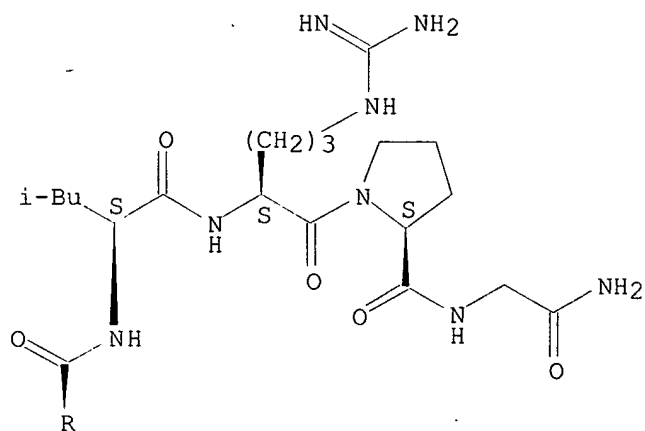
PAGE 1-A



PAGE 1-B



PAGE 2-A



CM 2

CRN 286427-85-8

CMF (C6 H10 O2 . C4 H6 O3)x . x C4 H6 O6

Searched by: Mary Hale 308-4258 CM-1 12D16

CDES 8:GD

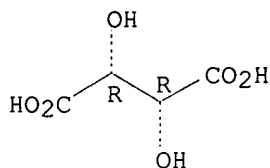
CM 3

CRN 87-69-4

CMF C4 H6 O6

CDES 1:R2:R*,R*

Absolute stereochemistry.



CM 4

CRN 116828-94-5

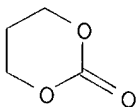
CMF (C6 H10 O2 . C4 H6 O3)x

CCI PMS

CM 5

CRN 2453-03-4

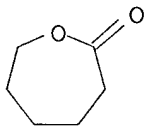
CMF C4 H6 O3



CM 6

CRN 502-44-3

CMF C6 H10 O2



RN 286427-88-1 CAPLUS

CN Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with 1,4-dioxane-2,5-dione polymer with 2-oxepanone (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 286427-83-6

CMF C66 H84 N18 O14

Searched by: Mary Hale 308-4258 CM-1 12D16

Al

PAGE 1-A



PAGE 1-B



PAGE 2-A



CM 2

CRN 286427-87-0

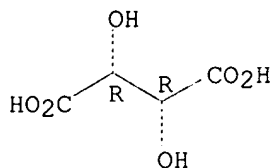
Searched by: Mary Hale 308-4258 CM-1 12D16

CMF (C6 H10 O2 . C4 H4 O4)x . x C4 H6 O6
CDES 8:GD

CM 3

CRN 87-69-4
CMF C4 H6 O6
CDES 1:R2:R*,R*

Absolute stereochemistry.

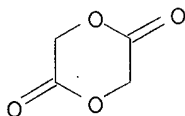


CM 4

CRN 41706-81-4
CMF (C6 H10 O2 . C4 H4 O4)x
CCI PMS

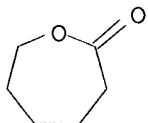
CM 5

CRN 502-97-6
CMF C4 H4 O4



CM 6

CRN 502-44-3
CMF C6 H10 O2



L12 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS
1997:127114 Document No. 126:118183 Polymerization of Unprotected Synthetic
Peptides: A View toward Synthetic Peptide Vaccines. O'Brien-Simpson, Neil
M.; Ede, Nicholas J.; Brown, Lorena E.; Swan, John; Jackson, David C.
(Cooperative Research Centre for Vaccine Technology, University of
Melbourne, Parkville, 3052, Australia). J. Am. Chem. Soc., 119(6),
1183-1188 (English) 1997. CODEN: JACSAT. ISSN: 0002-7863. Publisher:
American Chemical Society.
AB A generic method is reported for the assembly of multi-peptide polymers in

Searched by: Mary Hale 308-4258 CM-1 12D16

which peptides are synthesized in the solid phase, the N-terminal residue acryloylated, and the derivatized peptides cleaved, purified and finally polymd. by free radical induced polymn. The high mol. wt. polymers generated in this way have individual peptides pendant from a backbone support. Incorporation of 6-aminohexanoyl or other residue(s) at the N-terminus of the peptide prior to acryloylation allows the peptide to be distanced from the polymer backbone and incorporation of acryloylated reagents into the polymn. mixt. also permits distancing of pendant peptides along the length of the backbone support. The polymn. process results in highly antigenic artificial proteins as measured by ELISA. Because this approach allows the incorporation of the same or combinations of different purified peptides into polymers, it lends itself to the assembly of potential vaccine candidates contg. epitopes from single or multiple pathogens into a single covalent structure.

IT 186085-54-1P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and polymn. of acryloyl peptides as synthetic peptide vaccines)

RN 186085-54-1 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 1-[N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-seryl-L-glutamine]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

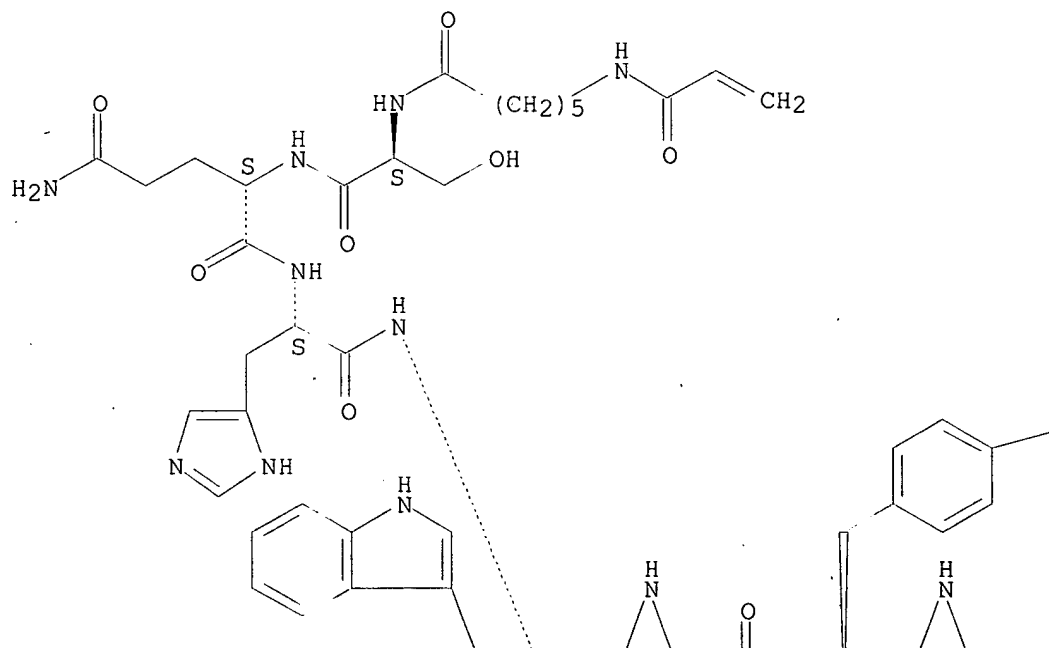
CM 1

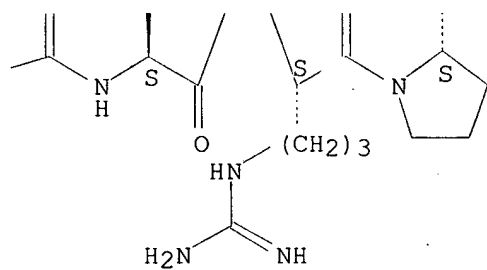
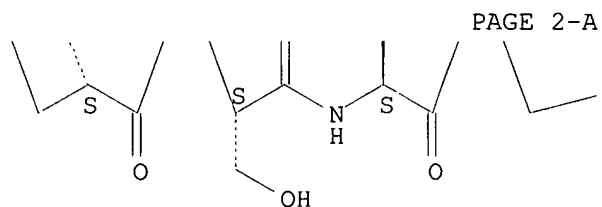
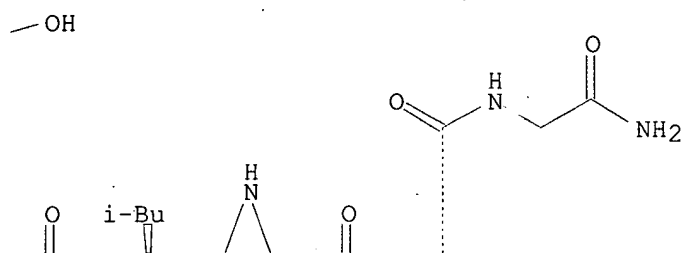
CRN 186085-38-1

CMF C67 H96 N20 O17

Absolute stereochemistry.

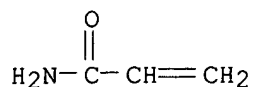
PAGE 1-A





CM 2

CRN 79-06-1
CMF C3 H5 N O



IT 186085-52-9P 186085-57-4P 186085-69-8P

186085-70-1P 186085-72-3P 186085-77-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and polymn. of acryloyl peptides as synthetic peptide vaccines)

RN 186085-52-9 CAPLUS

CN L-Lysinamide, L-.alpha.-aspartyl-L-cysteinyl-L-threonyl-L-leucyl-L-isoleucyl-L-.alpha.-aspartyl-L-alanyl-L-leucyl-L-leucylglycyl-L-.alpha.-aspartyl-L-prolyl-L-histidyl-N6-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

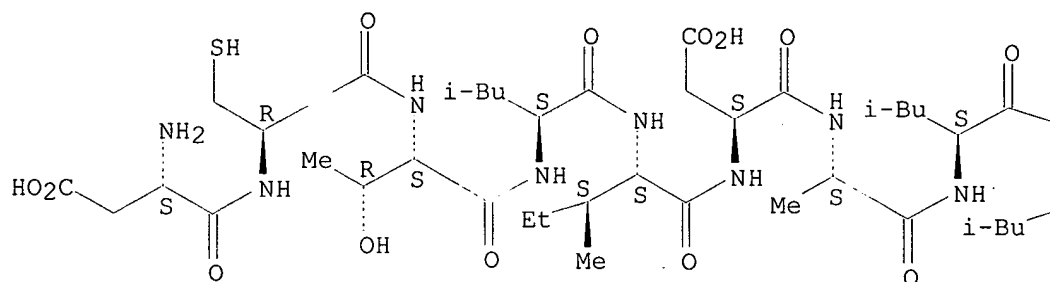
CM 1

CRN 186085-35-8

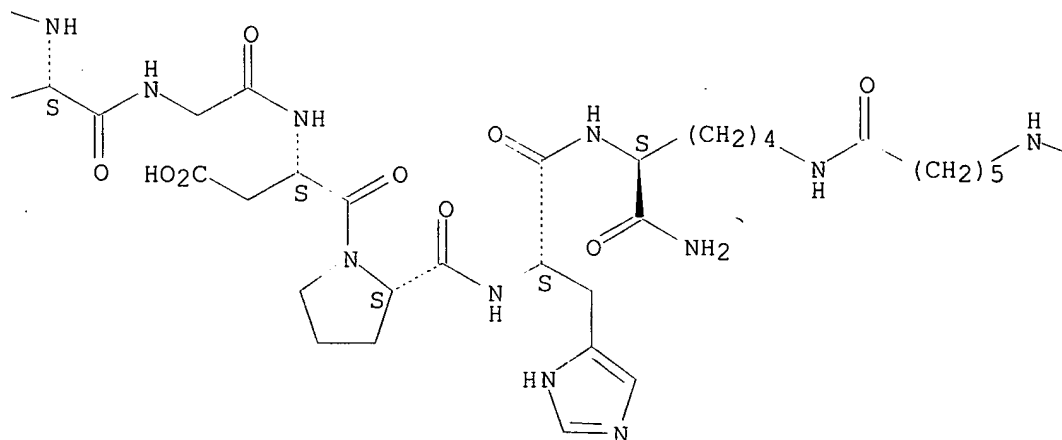
CMF C74 H121 N19 O23 S

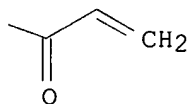
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

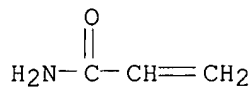




CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 186085-57-4 CAPLUS

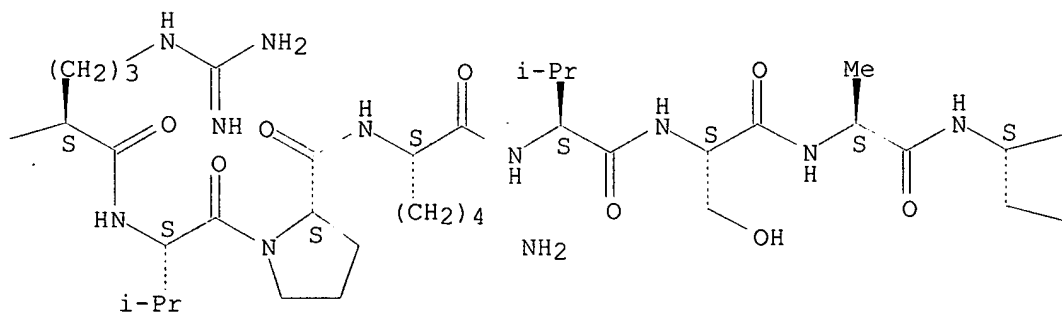
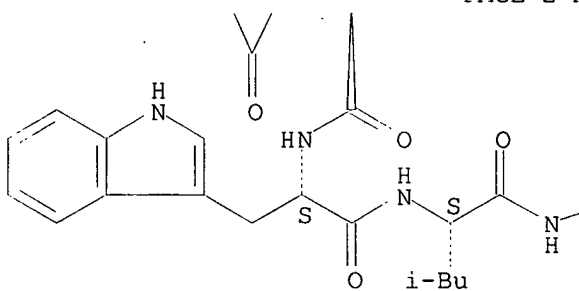
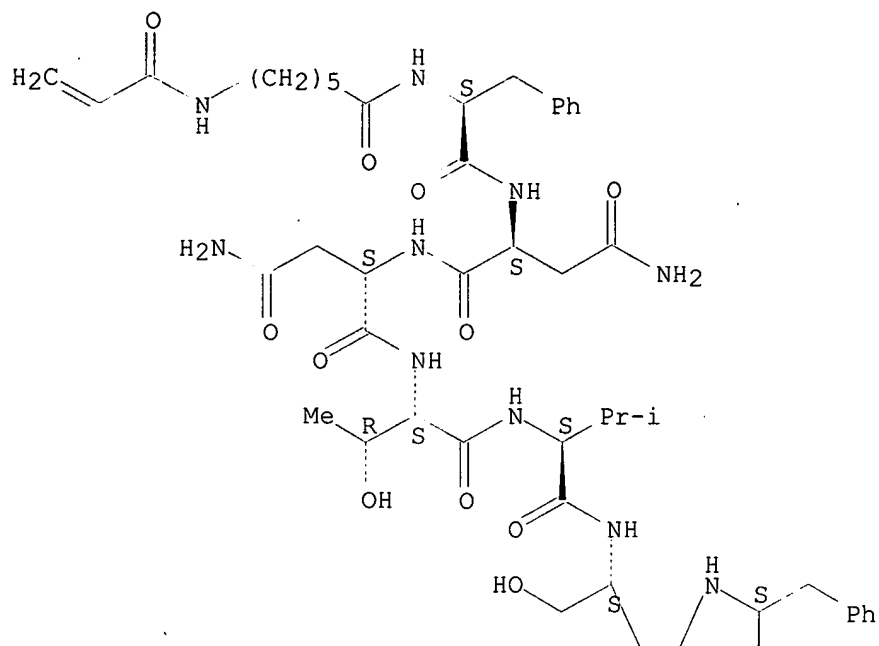
CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

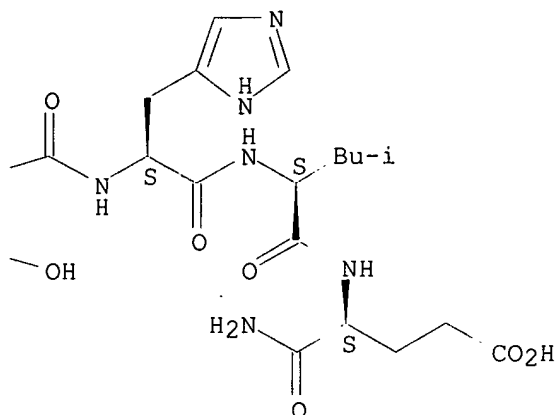
CM 1

CRN 186085-41-6

CMF C117 H177 N31 O30

Absolute stereochemistry.

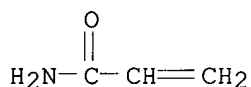




CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 186085-69-8 CAPLUS

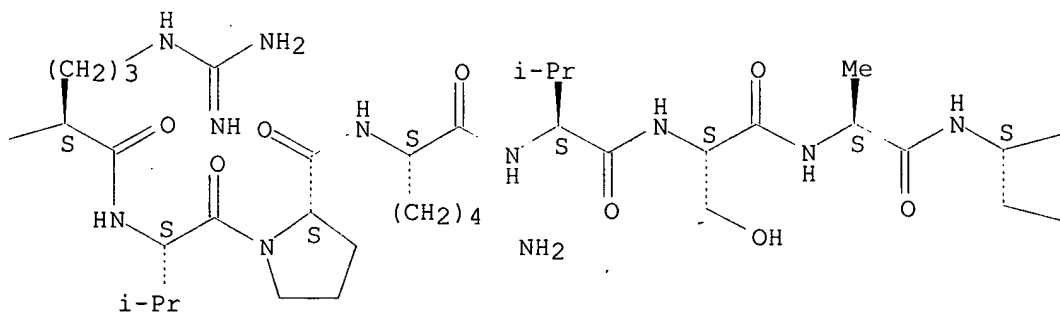
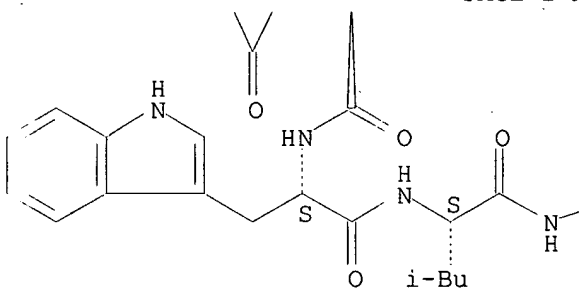
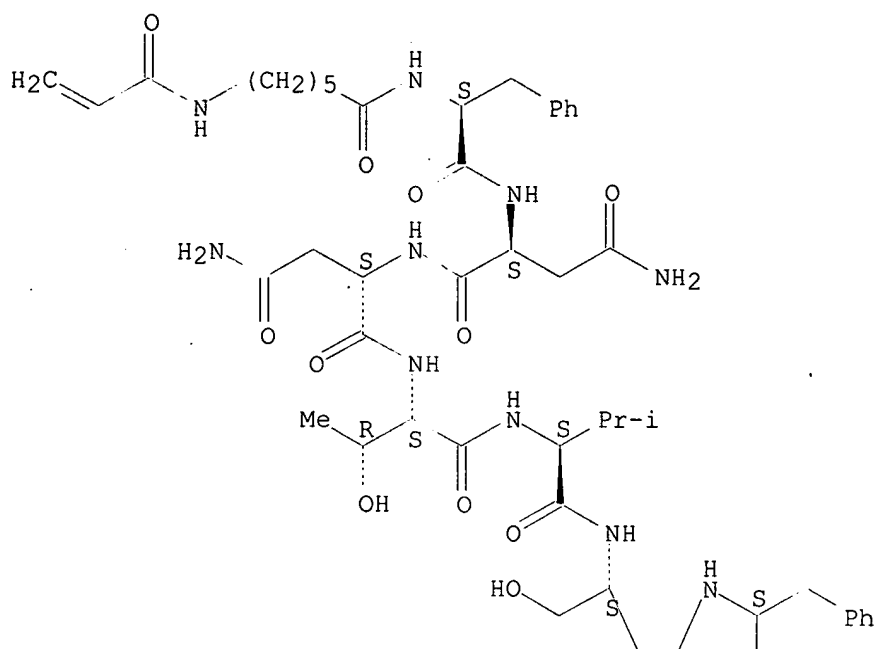
CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-seryl-L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycinamide and 2-propenamide (9CI) (CA INDEX NAME)

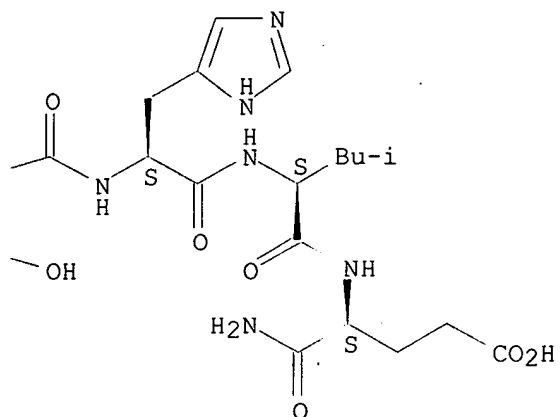
CM 1

CRN 186085-41-6

CMF C117 H177 N31 O30

Absolute stereochemistry.



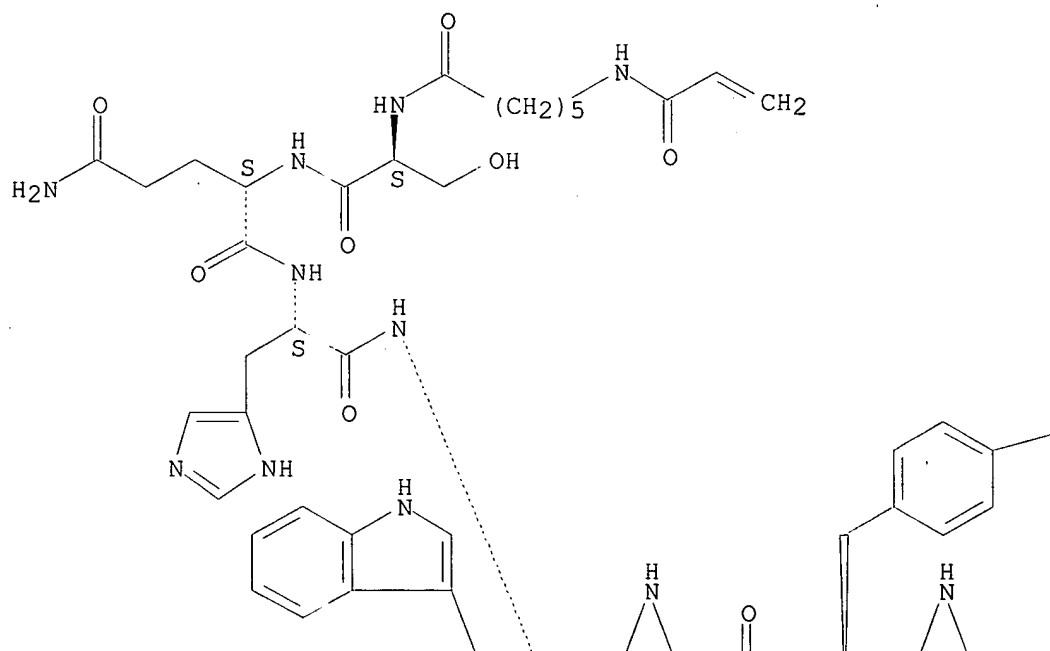


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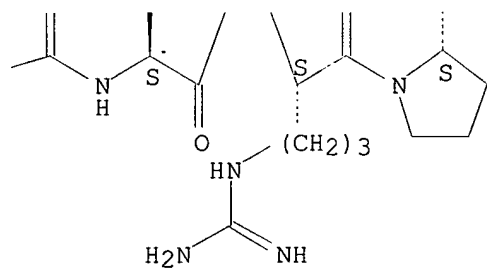
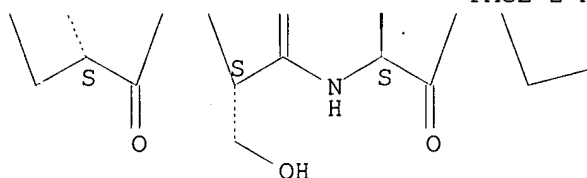
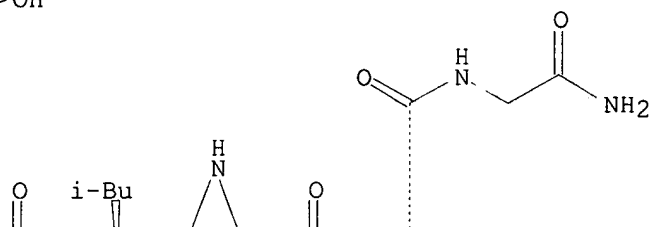
CRN 186085-38-1

CMF C67 H96 N20 O17

Absolute stereochemistry.

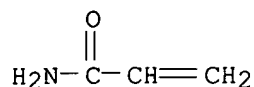


—OH



CM 3

CRN 79-06-1
CMF C3 H5 N O



RN 186085-70-1 CAPLUS

CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-argininamide and 2-propenamide (9CI)
(CA INDEX NAME)

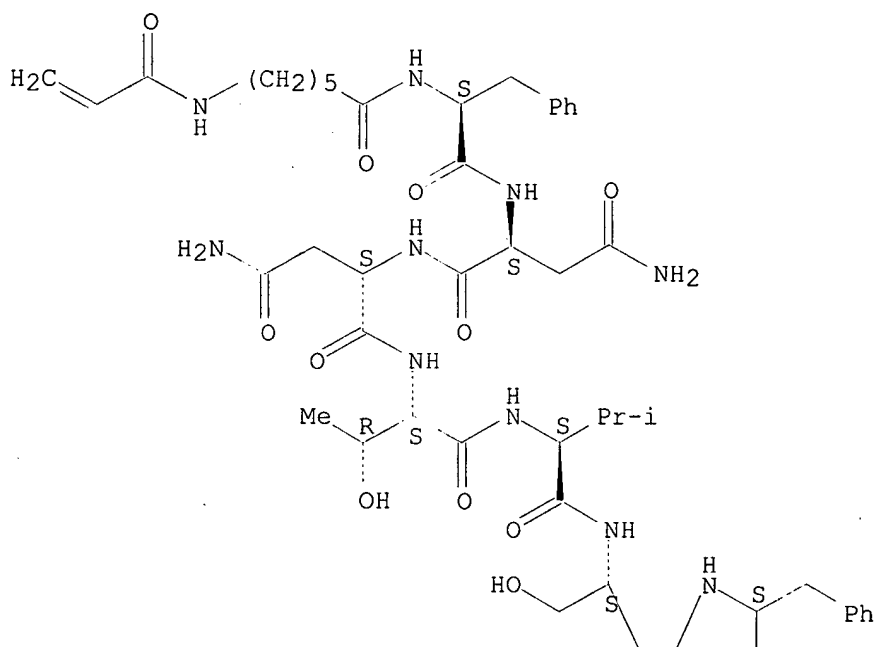
CM 1

CRN 186085-41-6

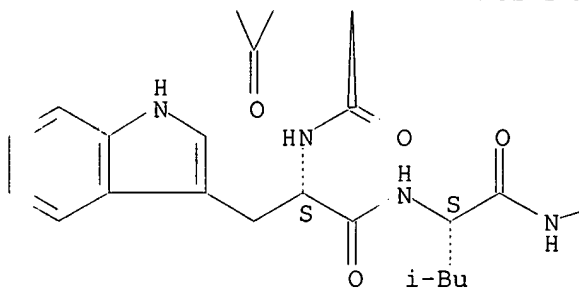
CMF C117 H177 N31 O30

Absolute stereochemistry.

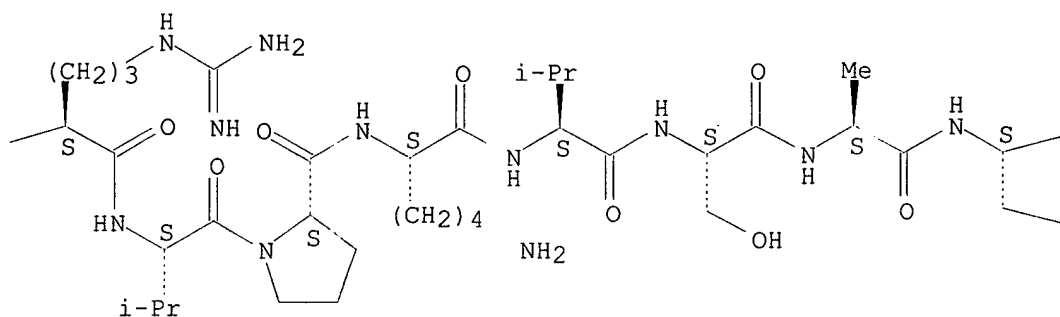
PAGE 1-A



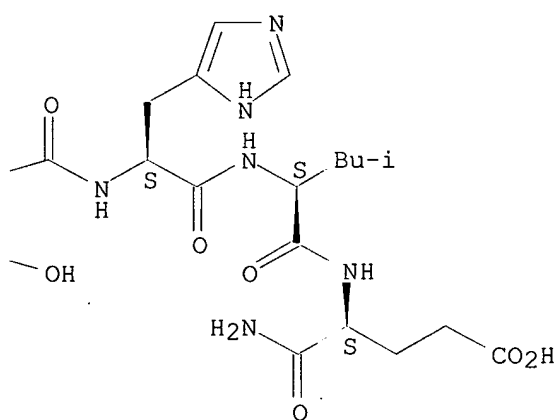
PAGE 2-A



PAGE 2-B



PAGE 2-C

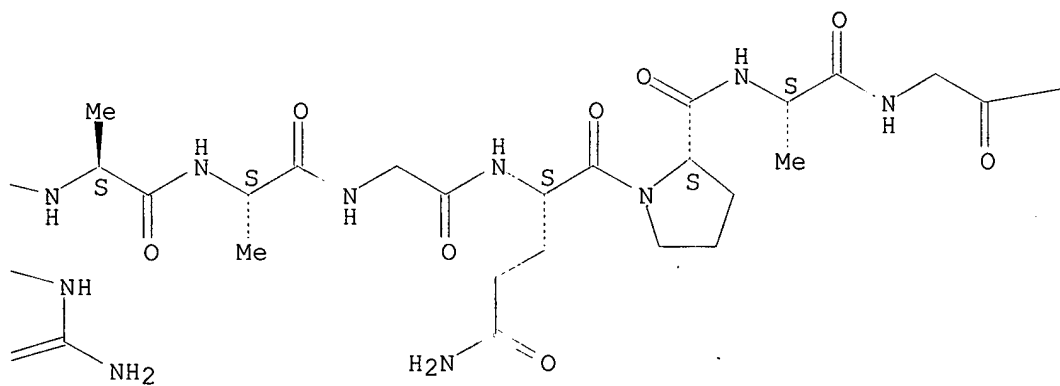
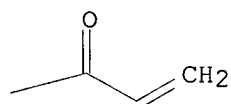
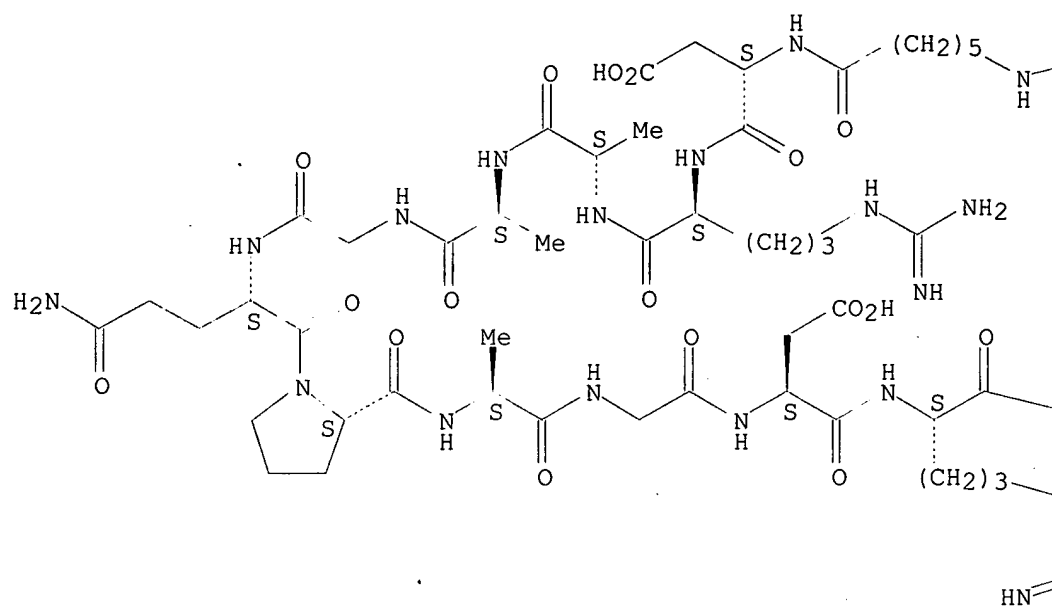


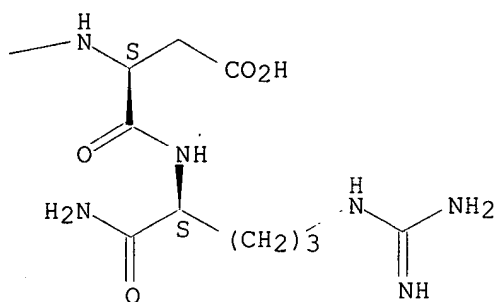
CM 2

CRN 186085-39-2
CMF C85 H139 N33 O30

Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

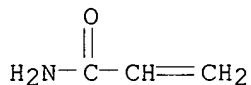




CM 3

CRN 79-06-1

CMF C3 H5 N O



RN 186085-72-3 CAPLUS

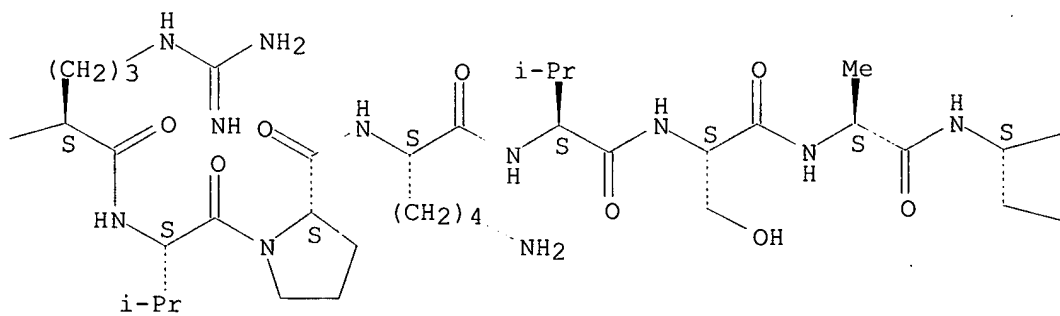
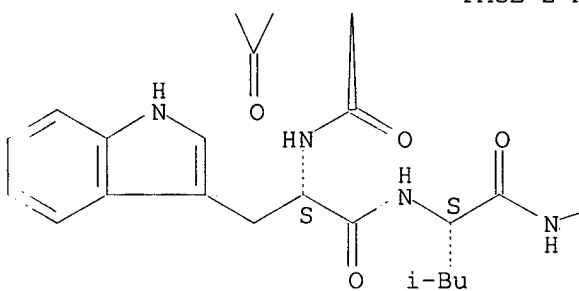
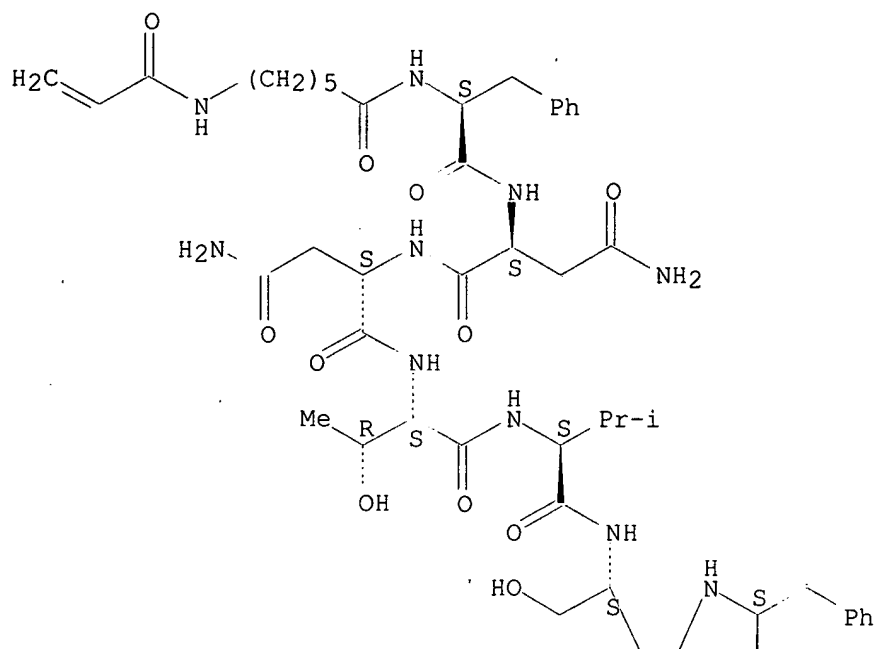
CN L-Prolinamide, N2-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-argininamide, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-L-.alpha.-glutamine and 2-propenamide (9CI) (CA INDEX NAME)

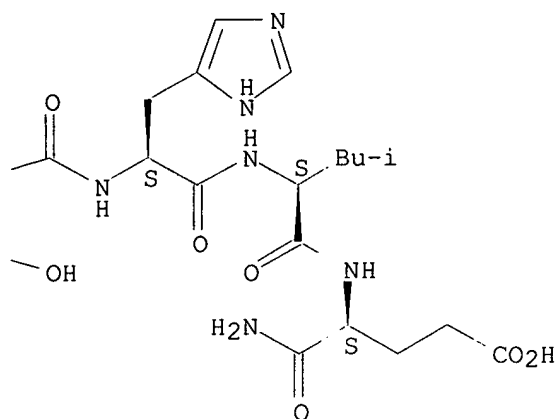
CM 1

CRN 186085-41-6

CMF C117 H177 N31 O30

Absolute stereochemistry.



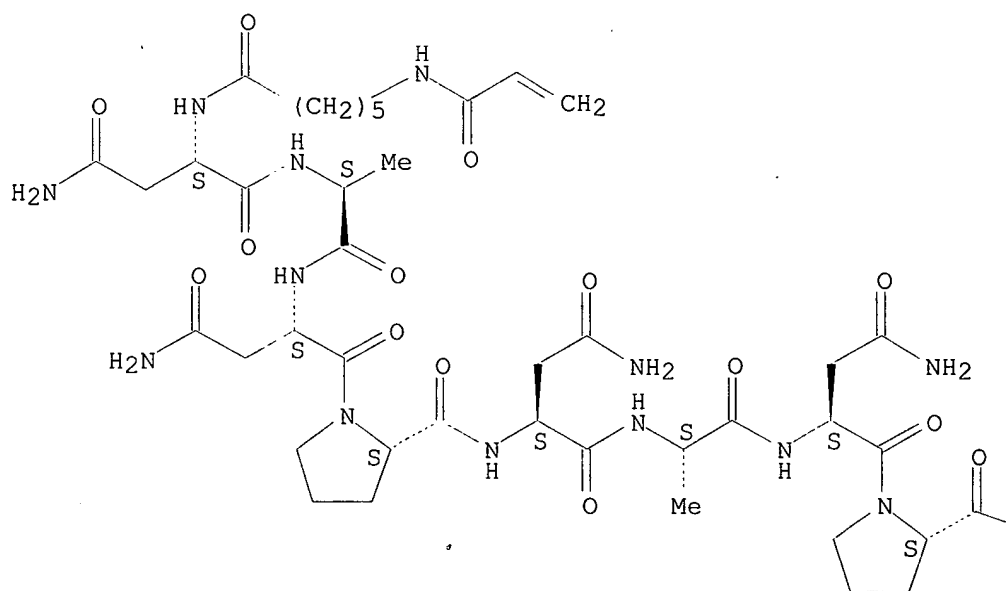


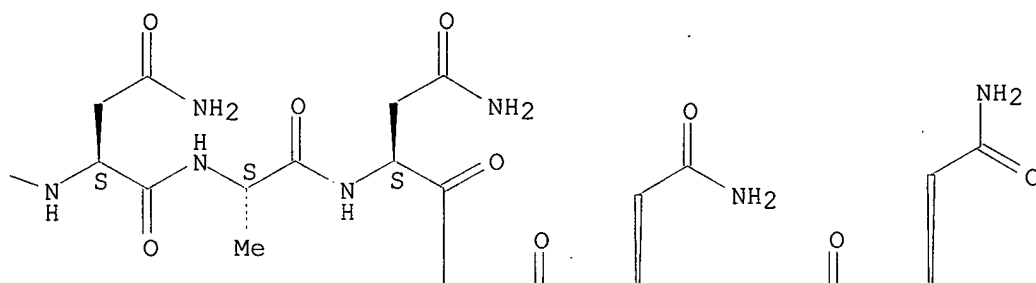
CM 2

CRN 186085-40-5

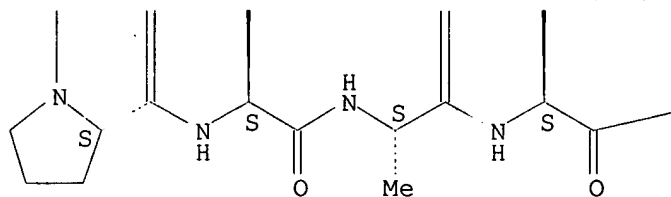
CMF C89 H136 N32 O32

Absolute stereochemistry.

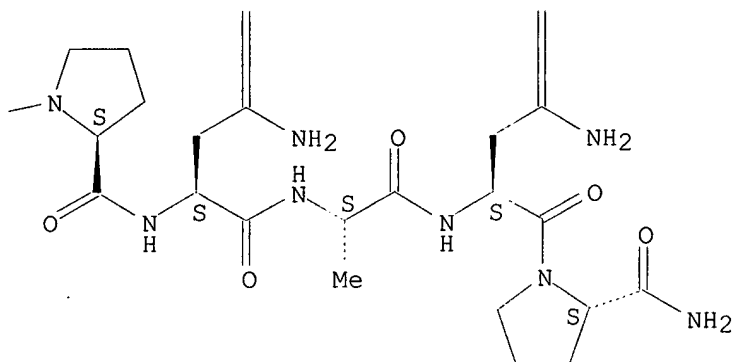




PAGE 2-B



PAGE 2-C

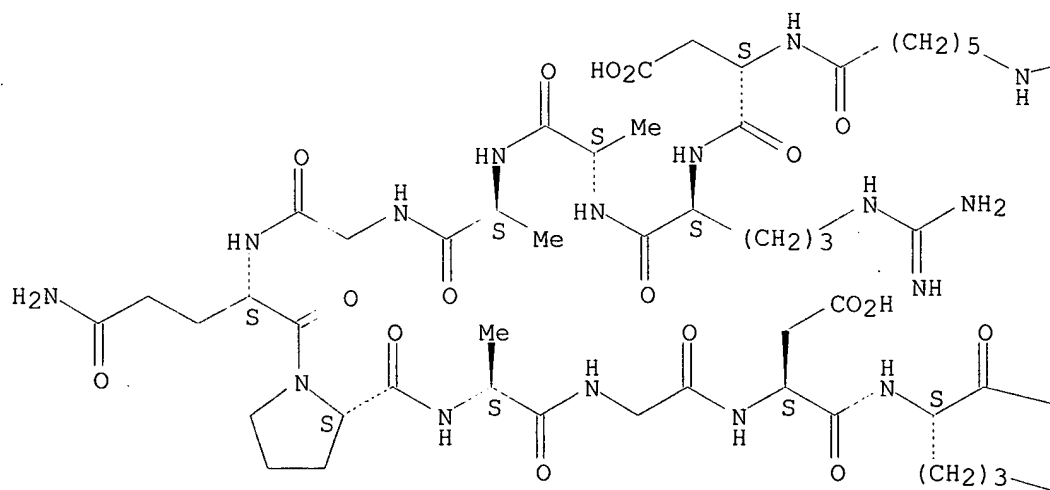


CM 3

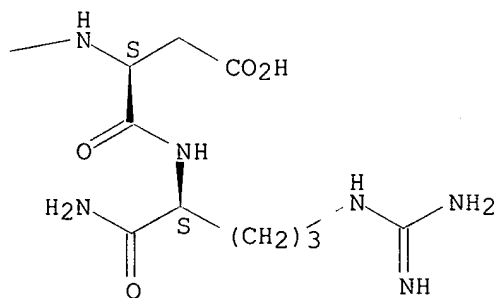
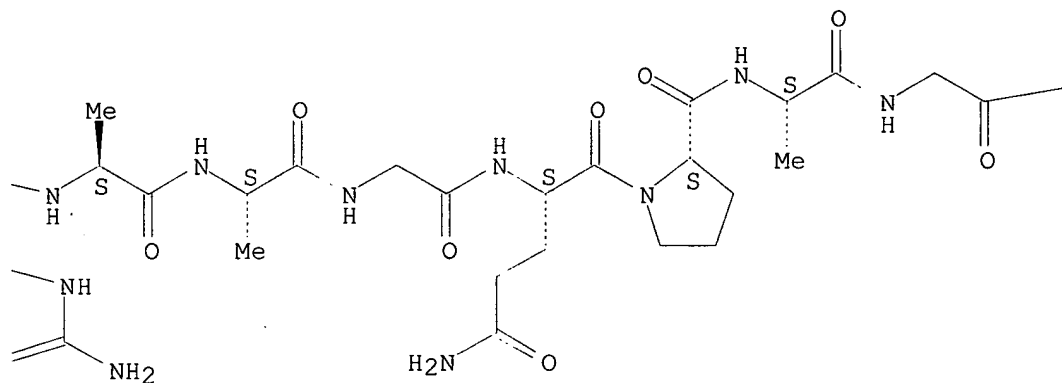
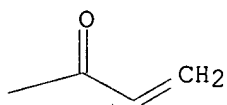
CRN 186085-39-2
CMF C85 H139 N33 O30

Absolute stereochemistry.

PAGE 1-A



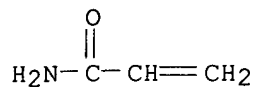
HN=



CM 4

CRN 79-06-1
CMF C3 H5 N O

CMF C3 H5 N O



RN 186085-77-8 CAPLUS

CN L-Lysinamide, L-.alpha.-aspartyl-L-cysteinyl-L-threonyl-L-leucyl-L-isoleucyl-L-.alpha.-aspartyl-L-alanyl-L-leucyl-L-leucylglycyl-L-.alpha.-aspartyl-L-prolyl-L-histidyl-N6-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-threonyl-L-tyrosyl-L-glutamyl-L-arginyl-L-threonyl-L-arginyl-L-alanyl-L-leucyl-L-valine and 2-propenamamide (9CI) (CA INDEX NAME)

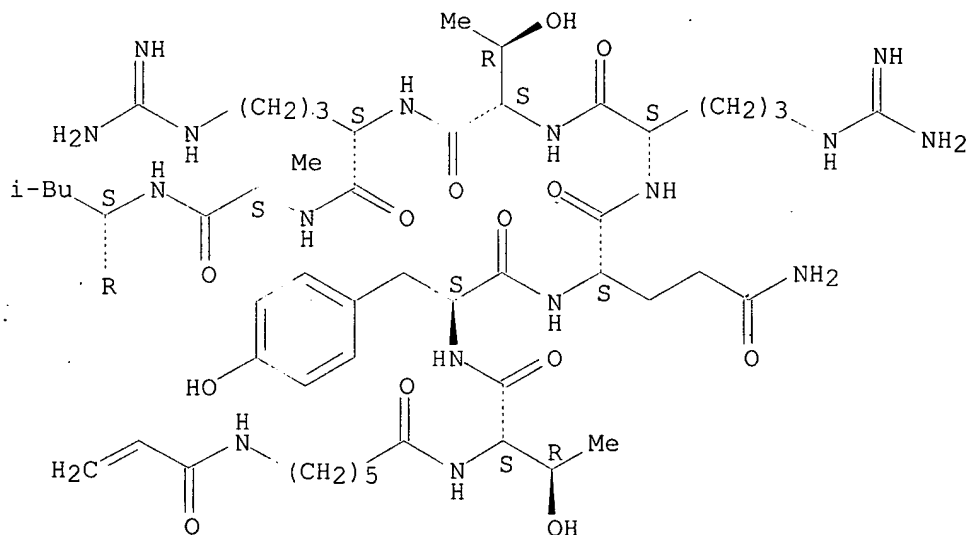
CM 1

CRN 186085-36-9

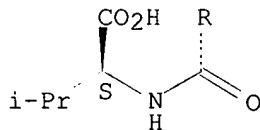
CMF C57 H95 N17 O16

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

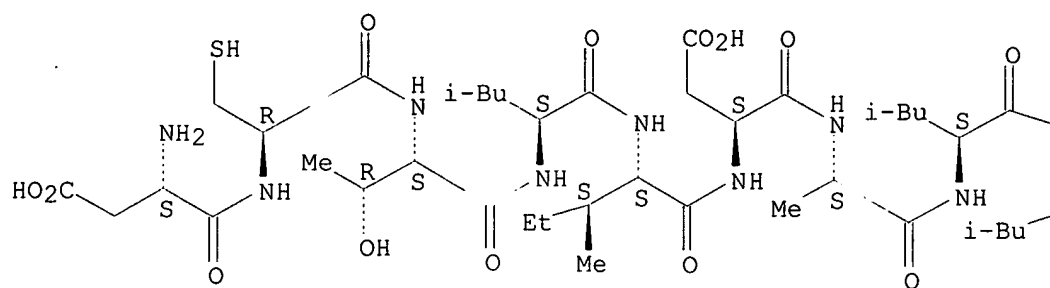
CRN 186085-35-8

CMF C74 H121 N19 O23 S

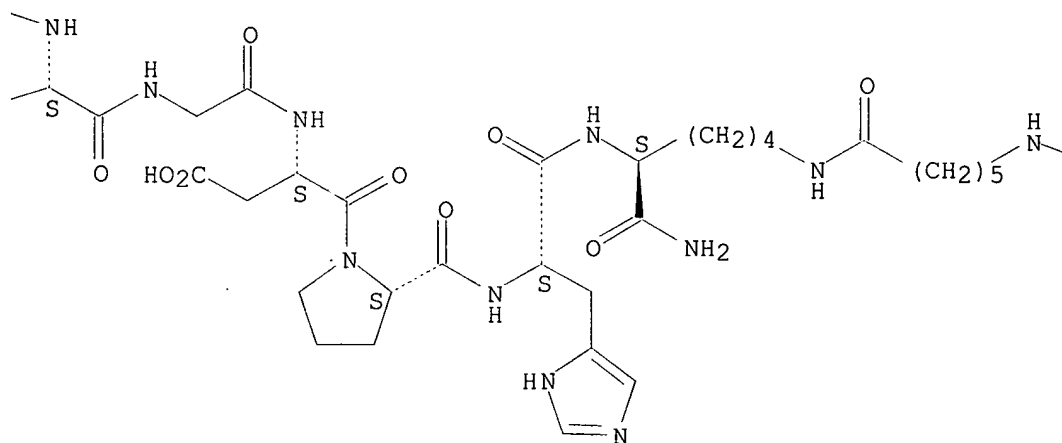
Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

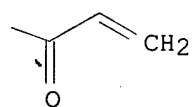
PAGE 1-A



PAGE 1-B

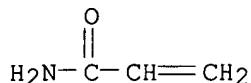


PAGE 1-C



CM 3

CRN 79-06-1
CMF C3 H5 N O



L12 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2001 ACS

1997:19991 Document No. 126:135536 Biological activity of luteinizing hormone releasing hormone after oral dosing with a novel nanoparticulate delivery system: copolymerized peptide particles. Hillery, Anya M.; Toth, Istvan; Florence, Alexander T. (Centre for Drug Delivery Research, School of Pharmacy, University of London, London, WCIN IAX, UK). Pharm. Sci., 2(6), 281-283 (English) 1996. CODEN: PHSCFB. ISSN: 1356-6881. Publisher: Royal Pharmaceutical Society of Great Britain.

AB The ability of a novel copolymeric nanoparticulate delivery system, co-polymerized peptide particles (CPP), to deliver a biol. active peptide via the oral route was investigated using the decapeptide LH releasing hormone (LHRH) as a model drug. Intact male Wistar rats (270 g, 9 wk old) were orally dosed via gavage for 14 days with either the CPP delivery system (contg. 1 mg LHRH/day), free LHRH in a buffer vehicle (1 mg LHRH/day) or saline. The seminal vesicle and prostate wts. of rats dosed with the CPP system were approx. 50% of the wt. of the same organs from rats dosed with saline or free LHRH. Repeated daily oral dosing with the CPP system also resulted in a statistically significant fall in serum testosterone concns., to approx. 55% of the control level. The results demonstrate that biol. active LHRH was absorbed after oral dosing with the CPP system, whereas the free peptide had no detectable biol. activity. The chem. conjugation of LHRH within this copolymeric nanoparticulate delivery system represents a viable approach to promoting oral absorption.

IT 186503-49-1

RL: BAC (Biological activity or effector, except adverse); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(biol. activity of LHRH after oral dosing with a nanoparticulate delivery system of copolymerized peptide particles)

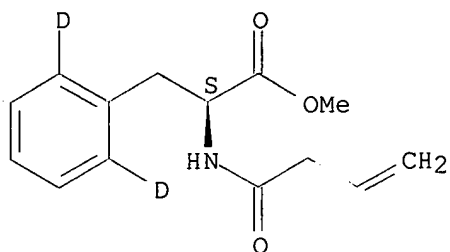
RN 186503-49-1 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 1-[5-oxo-1-(1-oxo-3-butenyl)-L-proline]-, polymer with butyl 2-cyano-2-propenoate and N-(1-oxo-3-butenyl)-L-phenylalanine-2,6-dimethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 186503-48-0
CMF C14 H15 D2 N O3

Absolute stereochemistry.



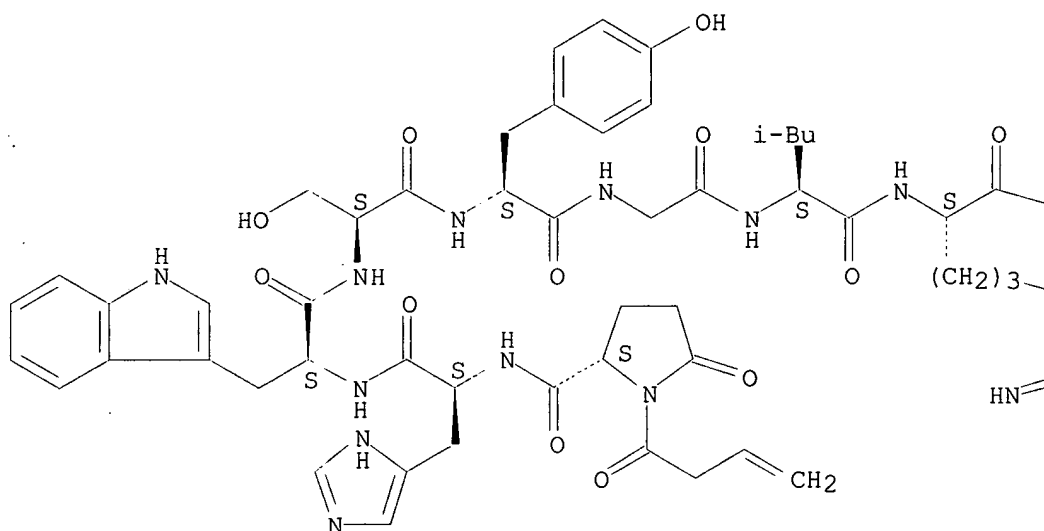
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CRN 186503-47-9

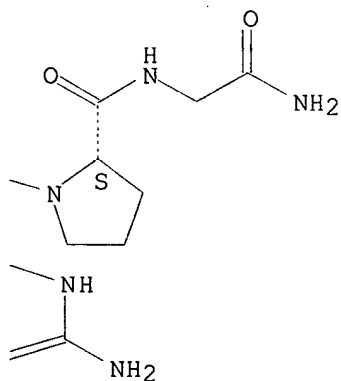
CMF C59 H79 N17 O14

Absolute stereochemistry.

PAGE 1-A



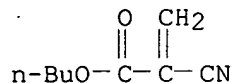
PAGE 1-B



CM 3

CRN 6606-65-1

CMF C8 H11 N O2



L12 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2001 ACS

1992:537523 Document No. 117:137523 Dose decrease of D-Phe6-GnRH for regulation of ovulation by formation of complexes with polyglycine. Naumann, W.; Braun, Karin; Losse, G. (Inst. Lebensmittelchem. Tech. Biochem., Tech. Univ. Dresden, Dresden, O-8027, Germany). Pharmazie, 46(11), 795-7 (German) 1991. CODEN: PHARAT. ISSN: 0031-7144.

AB The gonadotropin-releasing hormone (GnRH) analog D-Phe6-GnRH was complexed with polyglycine (mol. wt. 3000) by stirring together the 2 substances dissolved in HCO₂H, followed by evapn. of the acid and drying the complex over KOH. The complex was more resistant than the free hormone to tryptic hydrolysis in vitro. In the ovulation test in mice in vivo, the complex acted as a slow-release prepn.; its ED₅₀ was 34-fold less than that of the unprotected hormone.

IT 143336-97-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of and drug release and ovulation decrease from)

RN 143336-97-4 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-D-phenylalanine-, compd. with glycine homopolymer (9CI) (CA INDEX NAME)

CM 1

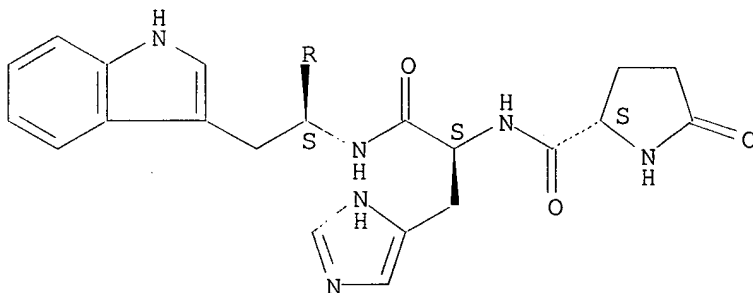
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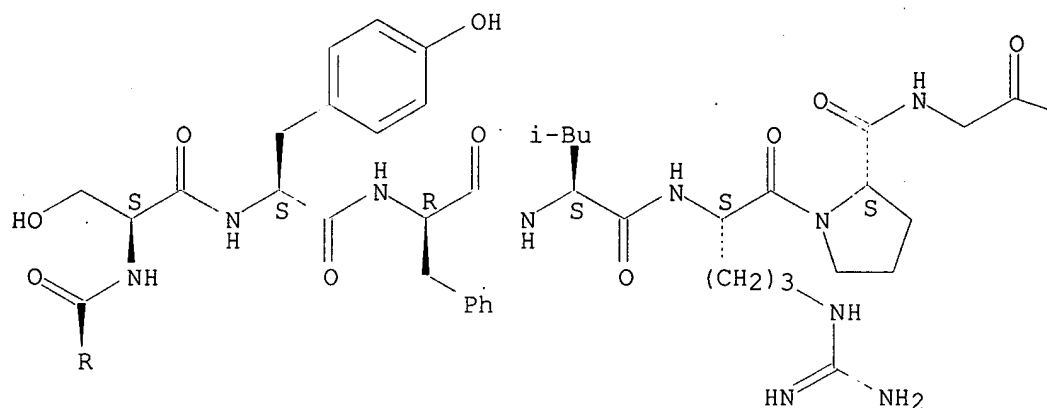
CMF C62 H81 N17 O13

CDES 5:L,L,L,L,L,D,L,L,L

Absolute stereochemistry.

PAGE 1-A





—NH₂

CM 2

CRN 25718-94-9

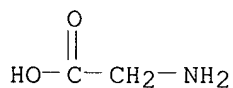
CMF (C2 H5 N O2)x

CCI PMS

CM 3

CRN 56-40-6

CMF C2 H5 N O2



L12 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2001 ACS

1976:17738 Document No. 84:17738 Octadecapeptide complex compound. Baba, Masaya; Hirata, Masaharu (Shionogi and Co., Ltd., Japan). Japan. JP 50017523 B4 19750621 Showa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 1969-71082 19690908.

AB A new octadecapeptide complex was prepd. by reacting a polyglutamic acid or its salt with X-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Y (X = residue of glycine or .beta.-alanine, Y = residue of L-arginine or L-argininamide or its salt). Thus, 2 mg Gly1-.beta.1-18-ACTH-NH₂ acetate in H₂O was treated with 2 mg L-polyglutamic acid (mol. wt. .apprx.5500) and the soln. neutralized with 0.3ml 0.1N NaOH to give a 5:1 complex of Gly1-.beta.1-18-ACTH-NH₂ and L-polyglutamic acid. The blood level of 11-hydroxycorticosteroids in rat 2 hr after injection of the above complex

was .apprx.35 .mu.g/dl compared with 5 .mu.g/dl for the starting
Gly1-.beta.1-18-ACTH-NH2.

IT 57592-79-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 57592-79-7 CAPLUS

CN .alpha.1-18-Corticotropin, 1-glycine-18-L-argininamide-, compd. with
L-glutamic acid homopolymer (9CI) (CA INDEX NAME)

CM 1

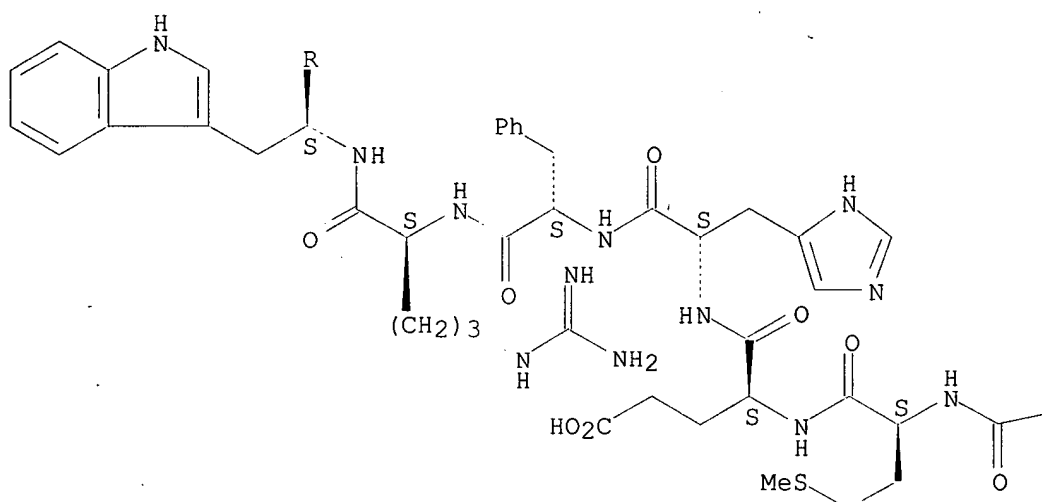
CRN 24870-04-0

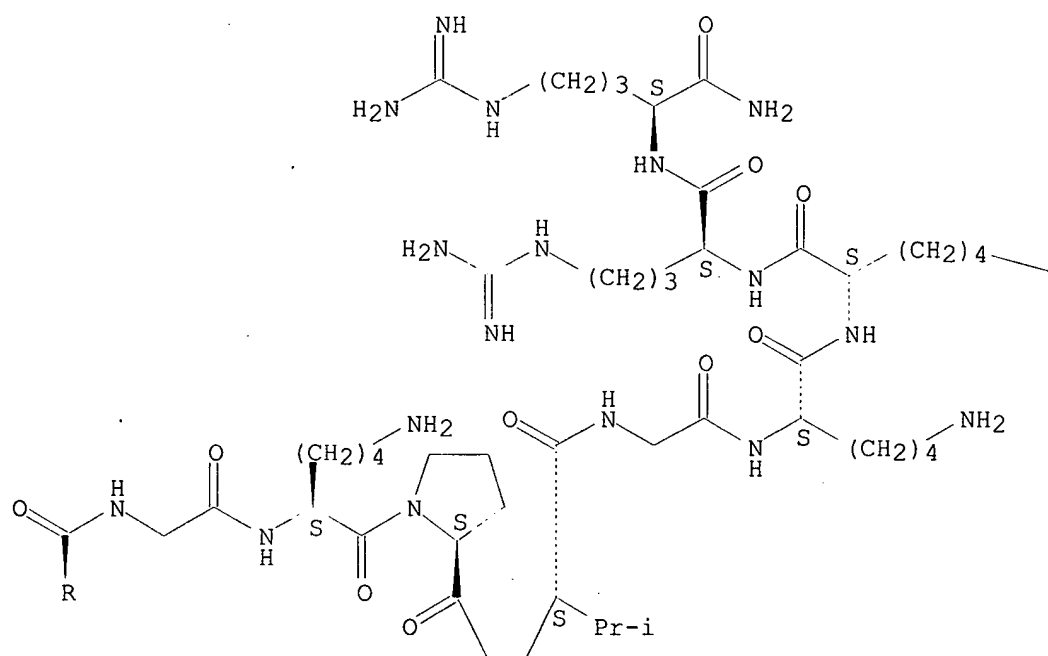
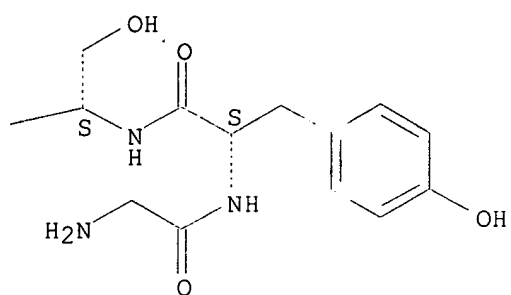
CMF C100 H156 N34 O22 S

CDES 5:ALL,L

Absolute stereochemistry.

PAGE 1-A





—NH₂



CM 2

CRN 25513-46-6

CMF (C5 H9 N O4)x

CCI PMS

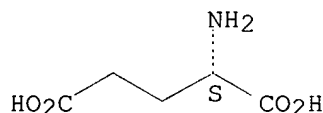
CM 3

CRN 56-86-0

CMF C5 H9 N O4

CDES 5:L

Absolute stereochemistry.



L12 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2001 ACS

1972:547861 Document No. 77:147861 Long-lasting corticotropic action of [1-gly]-ACTH-(1-18)-octadecapeptide amide-poly-L-aspartic acid complex. Hirata, Masaharu; Tanaka, Akira (Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan). Chem. Pharm. Bull., 20(8), 1844-5 (English) 1972. CODEN: CPBTAL.

AB Complex formation of gly1-.alpha.1-18-ACTH amide [(1-glycine)-ACTH-(1-18) octadecapeptide amide] [24870-04-0] with poly-L-aspartic acid [25608-40-6] (mol. wt. 2300) in a ratio of 2:1, resp., prolonged the half-life of the amide in mice. Poly-L-aspartate-gly1-.alpha.1-18-ACTH amide complex [36955-68-7] exerted a long-acting corticotropic activity (6 hr) upon i.m. injection into hypophysectomized rats, whereas the effect of an equiv. amt. of gly1-.alpha.1-18-ACTH amide was no longer detectable 2 hr after injection, although the max. corticoid level was approx. the same. This depot-effect was not obsd. in animals pretreated with poly-L-aspartic acid 10 or 60 min before the amide. A prolonged corticotrophic action was also obtained by forming complexes of the

hormone with poly-L-glutamic acid [25513-46-6], copoly-L-tyrosyl-L-glutamic acid [31325-39-0], or polyethylene maleic acid [25085-79-4].

IT 36955-68-7 38891-25-7

RL: BIOL (Biological study)

(corticosteroids of blood plasma in response to, prolonged action of)

RN 36955-68-7 CAPLUS

CN L-Aspartic acid, homopolymer, compd. with 1-glycine-18-L-argininamide-.alpha.1-18-corticotropin (9CI) (CA INDEX NAME)

CM 1

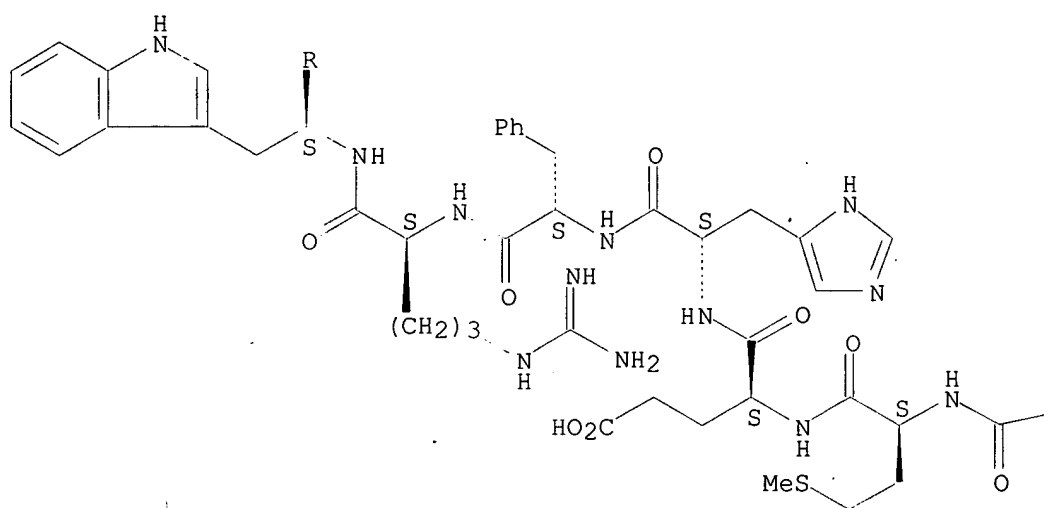
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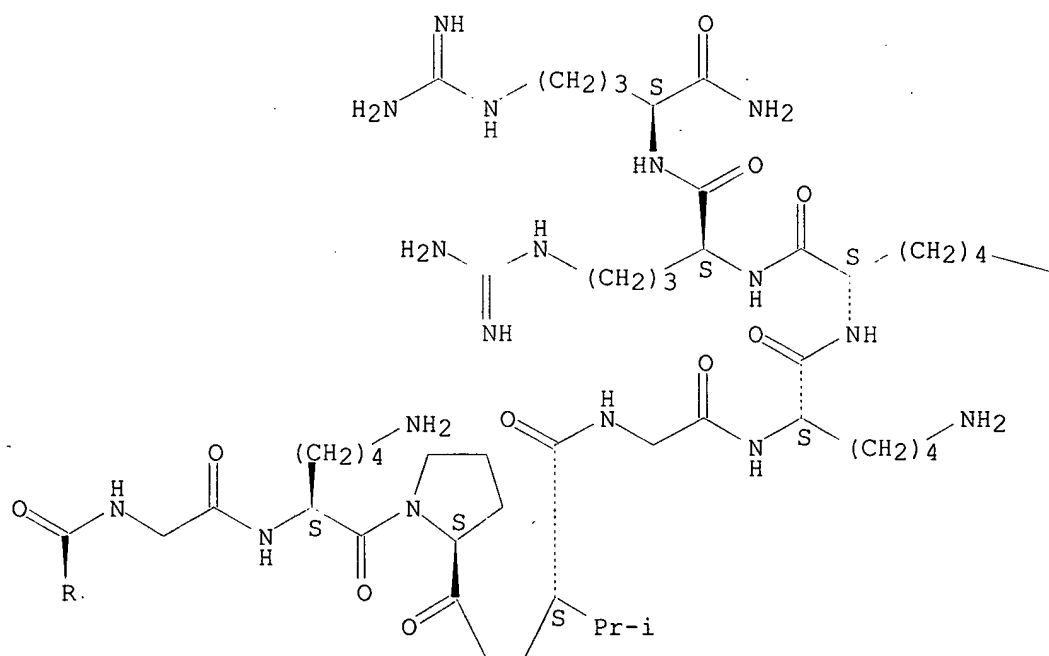
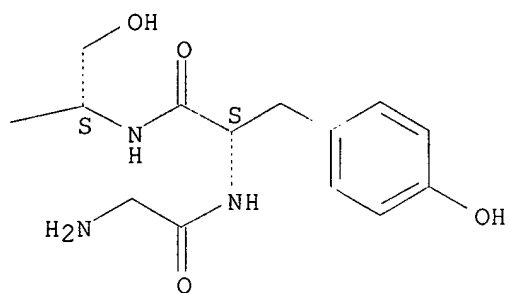
CMF C100 H156 N34 O22 S

CDES 5:ALL,L

Absolute stereochemistry.

PAGE 1-A







CM 2

CRN 25608-40-6

CMF (C4 H7 N O4)x

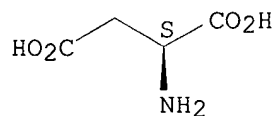
CCI PMS

CM 3

CRN 56-84-8

CMF C4 H7 N O4

Absolute stereochemistry. Rotation (+).



RN 38891-25-7 CAPLUS

CN .alpha.1-18-Corticotropin, 1-glycine-18-L-argininamide-, compd. with
poly[imino[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

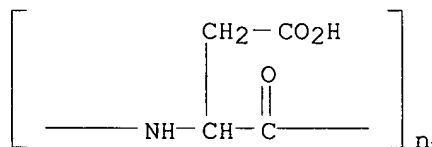
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CRN 26063-13-8

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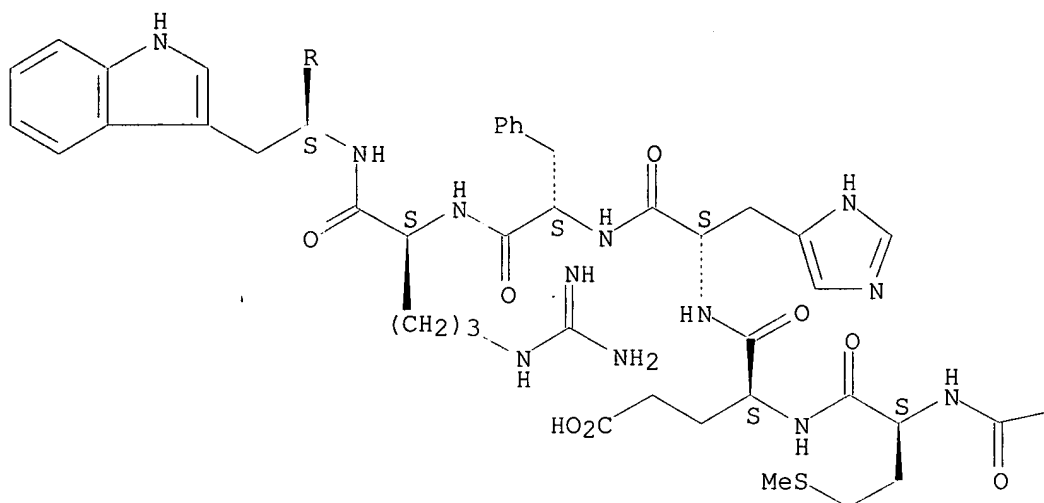
CCI PMS

CDES 1:S

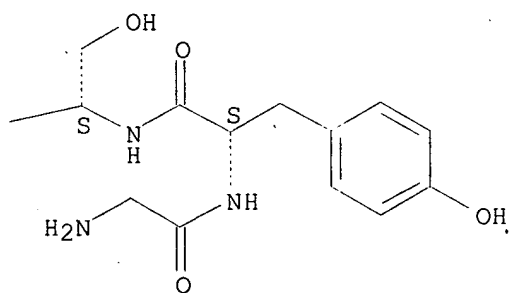


CRN 24870-04-0
CMF C100 H156 N34 O22 S
CDES 5:ALL,L

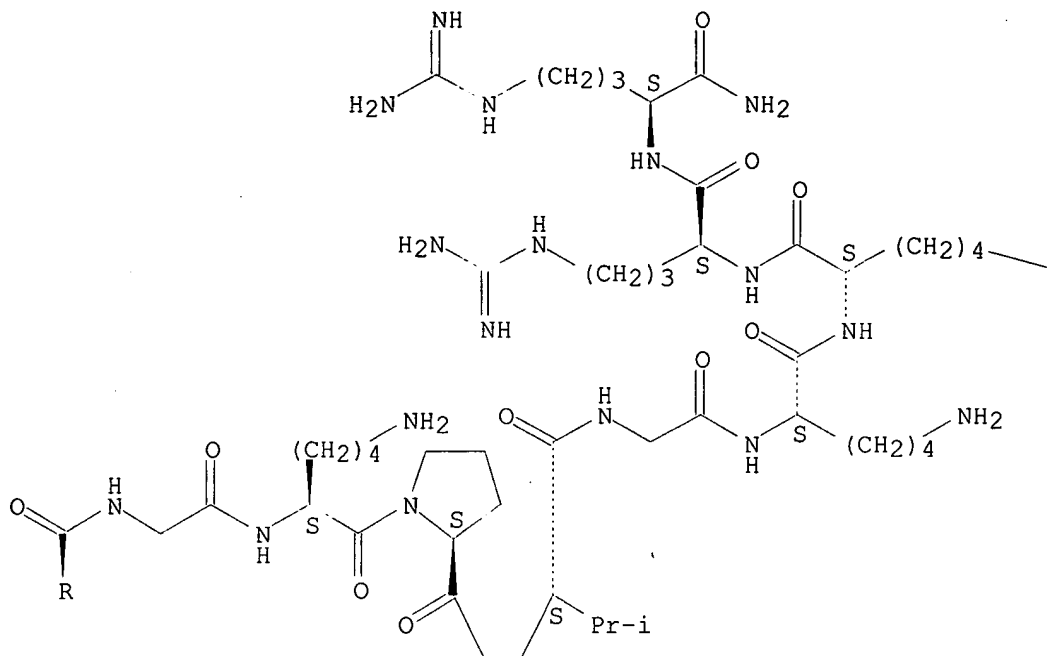
PAGE 1-A



PAGE 1-B



PAGE 2-A



PAGE 2-B

NH₂

PAGE 3-A



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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|------------|---------|
| SINCE FILE | TOTAL |
| ENTRY | SESSION |
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| | |
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| SINCE FILE | TOTAL |
| ENTRY | SESSION |
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Searched by: Mary Hale 308-4258 CM-1 12D16

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER see
HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STN Note 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d 118 que stat;d 1-11 ide cbib abs

L2 SCR 2043

L16 STR

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1 2 3 4 5 6 7

O=C---O---C---C---O---C---C---O---C---C---O---C---C
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REP G1=(0-4) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L18 11 SEA FILE=REGISTRY SSS FUL L16 AND L2

100.0% PROCESSED 1964 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.02

L18 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 337357-79-6 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 11-[20-isocyanato-17-(
(isocyanatomethyl)trimethyl-12-oxo-2,5,8,11-tetraoxa-13-azaeicos-1-
-yl]hexamethyl-11-(13,?,?,?-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-
en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl ester, polymer with
1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-
hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 3-hydroxy-2-(hydroxymethyl)-2-
methylpropanoic acid (9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 12D16

OTHER CA INDEX NAMES:

CN Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 11-[20-isocyanato-17-(isocyanatomethyl)trimethyl-12-oxo-2,5,8,11-tetraoxa-13-azaeicos-1-yl]hexamethyl-11-(13,?,?,-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate) (9CI)

CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,3-diisocyanatomethylbenzene, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 11-[20-isocyanato-17-(isocyanatomethyl)trimethyl-12-oxo-2,5,8,11-tetraoxa-13-azaeicos-1-yl]hexamethyl-11-(13,?,?,-tetramethyl-12-oxo-2,,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate) (9CI)

CN Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 11-[20-isocyanato-17-(isocyanatomethyl)trimethyl-12-oxo-2,5,8,11-tetraoxa-13-azaeicos-1-yl]hexamethyl-11-(13,?,?,-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate) (9CI)

MF (C64 H111 N3 O22 . C9 H6 N2 O2 . C5 H10 O4 . (C3 H6 O)n H2 O)x

CI PMS

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyurethane, Polyurethane formed

SR CA

LC STN Files: CA, CAPLUS

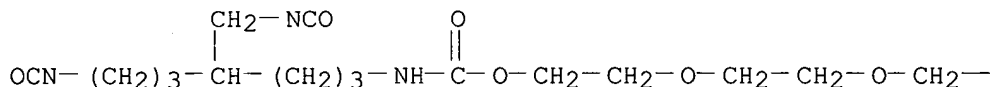
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CRN 337357-78-5

CMF C64 H111 N3 O22

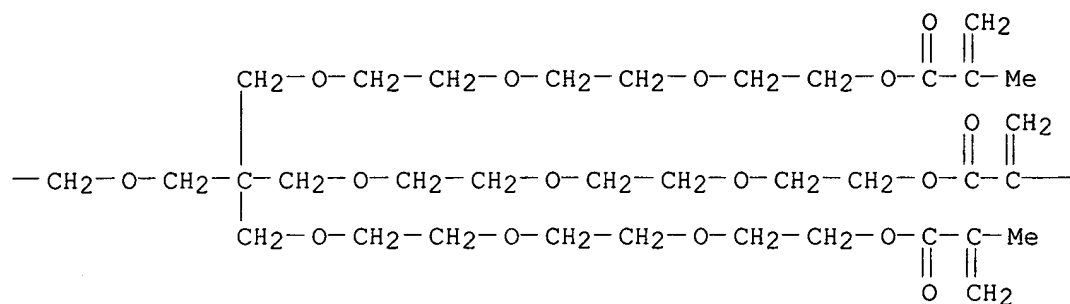
CCI IDS

PAGE 1-A



12 (D1-Me)

PAGE 1-B

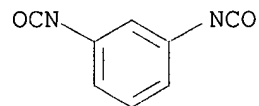


PAGE 1-C

— Me

CM 2

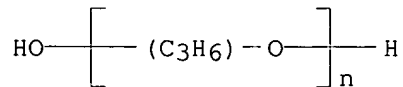
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1— Me

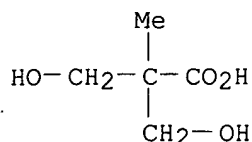
CM 3

CRN 25322-69-4
CMF (C3 H6 O)n H2 O
CCI IDS, PMS



CM 4

CRN 4767-03-7
CMF C5 H10 O4



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:334315 Lithographic printing plate precursor. Higashi, Tatsuji; Fujimaki, Kazuhiro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 1096314 A1 20010502, 99 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 2000-123343 20001027. PRIORITY: JP 1999-305734 19991027.

AB The invention relates to a lithog. printing plate precursor comprising a photopolymerizable compn. and to a neg. charged lithog. printing plate precursor having high sensitivity to visible light, high mech. strength and excellent highlight characteristics. A lithog. printing plate precursor is disclosed, comprising an Al support having thereon a photopolymerizable photosensitive layer which contains (a) an alkali-sol. urethane binder having .gtoreq.1 ethylenically unsatd. polymerizable group on the side chain thereof, (b) an addn. polymerizable compd. having an ethylenically unsatd. double bond, and (c) a photopolymn. initiator.

L18 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 337357-76-3 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 11-(19,24-diisocyanatotrimethyl-12-oxo-2,5,8,11-tetraoxa-13-azatetracos-1-yl)hexamethyl-11-(13,?,?,?-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl ester, polymer with 1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzene, 1,3-diisocyanatomethyl-, polymer with 11-(19,24-diisocyanatotrimethyl-12-oxo-2,5,8,11-tetraoxa-13-azatetracos-1-yl)hexamethyl-11-(13,?,?,?-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate), .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid (9CI)

CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,3-diisocyanatomethylbenzene, 11-(19,24-diisocyanatotrimethyl-12-oxo-2,5,8,11-tetraoxa-13-azatetracos-1-yl)hexamethyl-11-(13,?,?,?-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate) and 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid (9CI)

CN Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,3-diisocyanatomethylbenzene, 11-(19,24-diisocyanatotrimethyl-12-oxo-2,5,8,11-tetraoxa-13-azatetracos-1-yl)hexamethyl-11-(13,?,?,?-tetramethyl-12-oxo-2,5,8,11-tetraoxatetradec-13-en-1-yl)-3,6,9,13,16,19-hexaoxaheneicosane-1,21-diyl bis(2-methyl-2-propenoate) and .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI)

MF (C67 H117 N3 O22 . C9 H6 N2 O2 . C5 H10 O4 . (C3 H6 O)n H2 O)x

CI PMS

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyurethane, Polyurethane formed

SR CA

LC STN Files: CA, CAPLUS

Searched by: Mary Hale 308-4258 CM-1 12D16

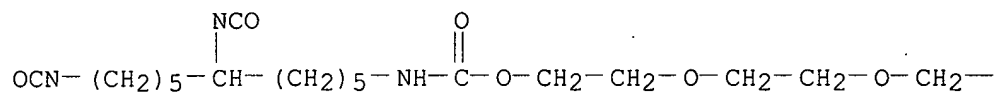
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CRN 337357-75-2

CMF C67 H117 N3 O22

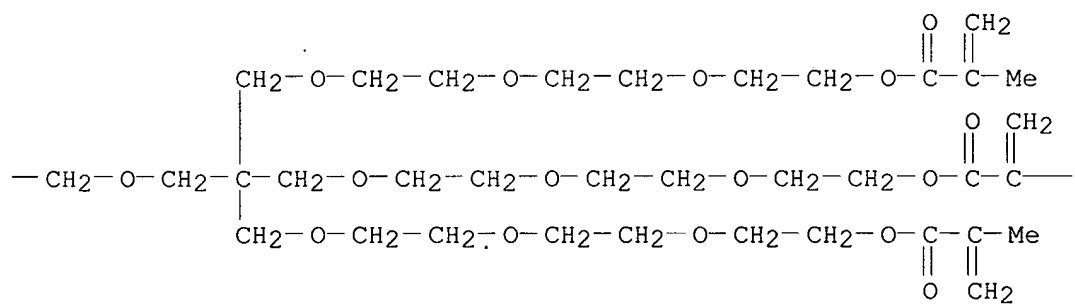
CCI IDS

PAGE 1-A



12 (D1-Me)

PAGE 1-B



PAGE 1-C

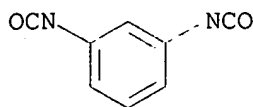
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CM 2

CRN 26471-62-5

CMF C9 H6 N2 O2

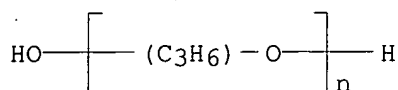
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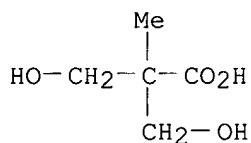
CM 3

CRN 25322-69-4
CMF (C3 H6 O)_n H2 O
CCI IDS, PMS



CM 4

CRN 4767-03-7
CMF C5 H10 O4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:334315 Lithographic printing plate precursor. Higashi, Tatsuji; Fujimaki, Kazuhiro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 1096314 A1 20010502, 99 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 2000-123343 20001027. PRIORITY: JP 1999-305734 19991027.

AB The invention relates to a lithog. printing plate precursor comprising a photopolymerizable compn. and to a neg. charged lithog. printing plate precursor having high sensitivity to visible light, high mech. strength and excellent highlight characteristics. A lithog. printing plate precursor is disclosed, comprising an Al support having thereon a photopolymerizable photosensitive layer which contains (a) an alkali-sol. urethane binder having .gtoreq.1 ethylenically unsatd. polymerizable group on the side chain thereof, (b) an addn. polymerizable compd. having an ethylenically unsatd. double bond, and (c) a photopolymn. initiator.

L18 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 261508-22-9 REGISTRY
CN 11,14,17,20,23-Pentaoxa-2,9-diazahexacos-25-enoic acid,
25-methyl-10,24-dioxo-, 14-methyl-13-oxo-3,6,9,12-tetraoxapentadec-14-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)
MF (C32 H56 N2 O14)x

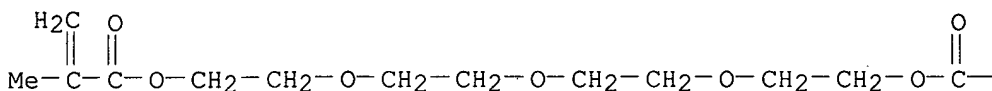
Searched by: Mary Hale 308-4258 CM-1 12D16

CI PMS
SR CA
LC STN Files: CA, CAPLUS

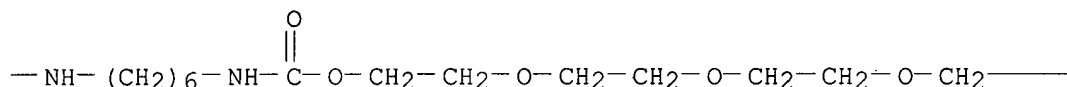
CM 1

CRN 261508-13-8
CMF C32 H56 N2 O14

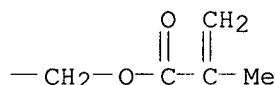
PAGE 1-A



PAGE 1-B



PAGE 1-C



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:223272 Evaluation of the network parameter in aliphatic poly(urethane dimethacrylate)s by dynamic thermal analysis. Barszczewska-Rybarek, I.; Gibas, M.; Kurcok, M. (Department of Physical Chemistry and Technology of Polymers, Silesian Technical University, Gliwice, 44-100, Pol.). Polymer, 41(9), 3129-3135 (English) 2000. CODEN: POLMAG. ISSN: 0032-3861. Publisher: Elsevier Science Ltd..

AB The decarbamates obtained from monomethacrylates of oligoethylene glycols and aliph. diisocyanates were polymd. free radically to form crosslinked polymers consisting of primary chains, crosslinks and pendant side chains bearing unreacted methacrylate groups. The polymers were examd. by dynamic mech. thermal anal. (DMTA) to yield values of glass transition temp. and storage modulus. The latter enabled the network parameters for individual polymers to be evaluated. These have been found to be low when compared with mol. wts. of the monomers and can be attributed to intermol. interactions between the pendant chains and the crosslinks involving urethane linkages. This finding is supported by the 1H NMR expts. on monomers in soln.

L18 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 247086-76-6 REGISTRY
CN L-Lysine, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-.beta.-alaninyl-16-hydroxy-4-oxo-5,8,11,14-tetraoxahexadecanoyl-L-lysyl-L-lysyl-N6-[6-[[[3-hydroxyphenyl]acetyl]amino]-1-oxohexyl]-, homopolymer (9CI) (CA INDEX NAME)
FS STEREOSEARCH

Searched by: Mary Hale 308-4258 CM-1 12D16

MF (C57 H94 N10 O17 S)x
 CI PMS
 PCT Polyamide, Polyamide formed, Polyester, Polyester formed
 SR CA
 LC STN Files: CA, CAPLUS

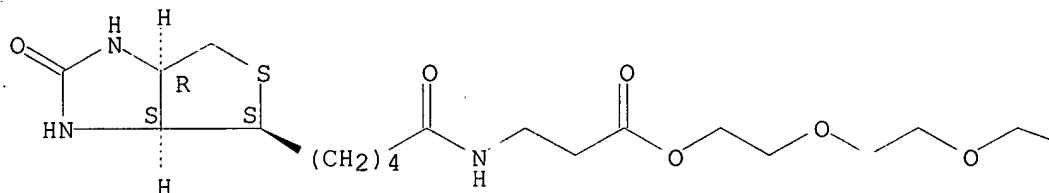
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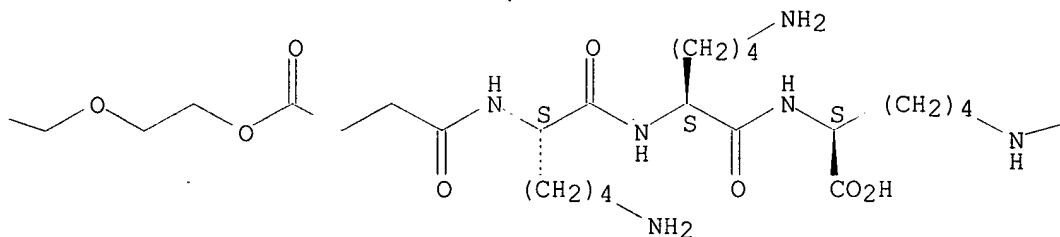
CMF C57 H94 N10 O17 S

Absolute stereochemistry.

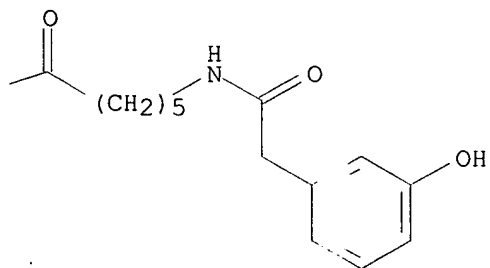
PAGE 1-A



PAGE 1-B



PAGE 1-C



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:297169 Anodic polymerization of phenol-modified biotin.
 Patterned deposition and layer characterization. Mack, Jurgen; Leipert,
 Dietmar; Badia, Antonella; Knoll, Wolfgang; Jung, Gunther (Inst.
 Organische Chem., Univ. Tübingen, Tübingen, D-72076, Germany). Adv.

Searched by: Mary Hale 308-4258 CM-1 12D16

Mater. (Weinheim, Ger.), 11(10), 809-814 (English) 1999. CODEN: ADVMEW.
ISSN: 0935-9648. Publisher: Wiley-VCH Verlag GmbH.

AB An approach to the immobilization of compds. on surfaces is described that should also be applicable to combinatorial libraries. The attachment of an electrochem. polymerizable phenol group to mols., in this case biotin, followed by anodic polymn. yielded thin insulating layers. When the polymn. takes place in several mini-cells simultaneously, the parallel immobilization of streptavidin can be achieved. The characterization of layers of 3 anodically polymd. biotinylated phenols is described in detail.

L18 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 247086-72-2 REGISTRY

CN L-Lysine, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-.beta.-alaninyl-16-hydroxy-4-oxo-5,8,11,14-tetraoxahexadecanoyl-L-lysyl-L-lysyl-N6-[6-[(3-hydroxyphenyl)acetyl]amino]-1-oxohexyl]-, polymer with 3-hydroxybenzeneacetic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetic acid, 3-hydroxy-, polymer with N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-.beta.-alaninyl-16-hydroxy-4-oxo-5,8,11,14-tetraoxahexadecanoyl-L-lysyl-L-lysyl-N6-[6-[(3-hydroxyphenyl)acetyl]amino]-1-oxohexyl]-L-lysine (9CI)

FS STEREOSEARCH

MF (C57 H94 N10 O17 S . C8 H8 O3)x

CI PMS

PCT Polyamide, Polyamide formed, Polyester, Polyester formed

SR CA

LC STN Files: CA, CAPLUS

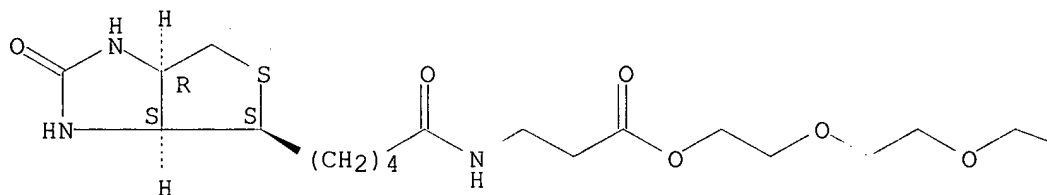
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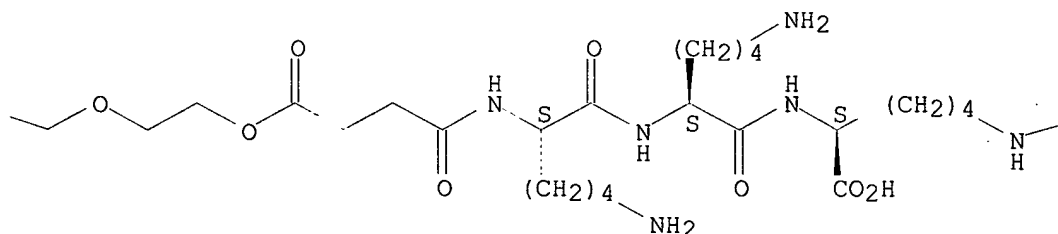
CMF C57 H94 N10 O17 S

Absolute stereochemistry.

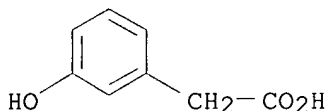
PAGE 1-A



PAGE 1-B



CRN 621-37-4
CMF C8 H8 O3

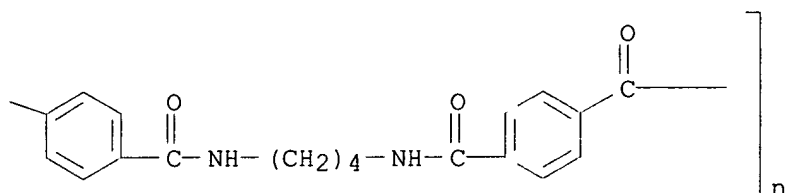
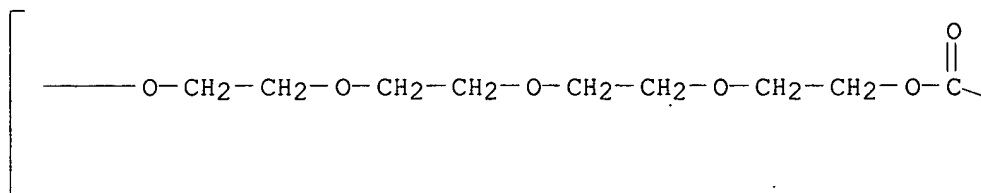


REFERENCE 1: 131:297169 Anodic polymerization of phenol-modified biotin.
Patterned deposition and layer characterization. Mack, Jurgen; Leipert,
Dietmar; Badia, Antonella; Knoll, Wolfgang; Jung, Gunther (Inst.
Organische Chem., Univ. Tübingen, Tübingen, D-72076, Germany). Adv.
Mater. (Weinheim, Ger.), 11(10), 809-814 (English) 1999. CODEN: ADVMEW.
ISSN: 0935-9648. Publisher: Wiley-VCH Verlag GmbH.

AB An approach to the immobilization of compds. on surfaces is described that
should also be applicable to combinatorial libraries. The attachment of
an electrochem. polymerizable phenol group to mols., in this case biotin,
followed by anodic polymn. yielded thin insulating layers. When the
polymn. takes place in several mini-cells simultaneously, the parallel
immobilization of streptavidin can be achieved. The characterization of
layers of 3 anodically polymd. biotinylated phenols is described in
detail.

L18 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 206362-46-1 REGISTRY
CN Poly(oxy-1,2-ethanediyl oxy-1,2-ethanediyl oxy-1,2-ethanediyl oxy-1,2-
ethanediyl oxycarbonyl-1,4-phenylenecarbonylimino-1,4-
butanediyliminocarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX NAME)

OTHER NAMES:
CN Dimethyl N,N'-(tetramethylene)bis(terephthalamate)-tetraethylene glycol
copolymer sru
MF (C28 H34 N2 O9)n
CI PMS
PCT Polyamide, Polyester, Polyether
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:308838 Alternating polyester amides based on 1,4-butylene terephthalamide: 4. Alternating polyether ester amides based on glycols (4NT glycol). Serrano, P. J. M.; Gaymans, R. J.; Aerts, L. (Univ. of Twente, Enschede, 7500 AE, Neth.). Polymer, 39(11), 2291-2297 (English) 1998. CODEN: POLMAG. ISSN: 0032-3861. Publisher: Elsevier Science Ltd..

AB Polyether-polyester-polyamides were prepd. in the melt from di-Me N,N'-(1,4-butylene)bis(terephthalamate) (4NT) and ethylene or propylene glycols. The melting temps. of the polymers decreased with increasing chain length of the glycols. The undercooling for these polymers, detd. at 20.degree./min, was low (20-35.degree.), suggesting a very high rate of crystn. Injection molded samples were analyzed with dynamic mech. thermal anal. The Tg decreased with increasing glycol length to 42.degree. for tetraethylene glycol. The Tg/Tm ratio was high (0.69-0.70). The dimensional stability of the polymers above the Tg was high.

L18 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 157381-93-6 REGISTRY

CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, mixt. contg. (9CI)

MF C37 H75 N2 O6 . (C2 H4 O)n C15 H24 O . Cl

CI MXS

PCT Polyether

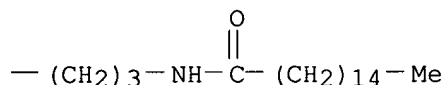
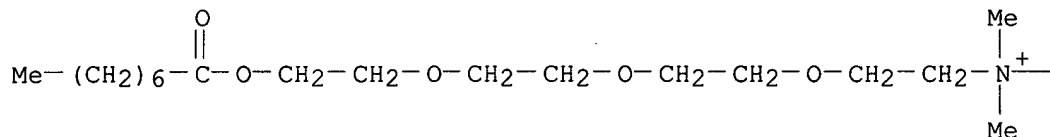
SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

CM 1

CRN 157249-73-5

CMF C37 H75 N2 O6 . Cl

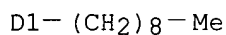
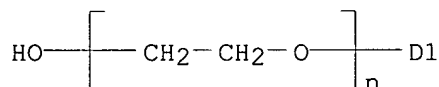


CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:151293 Quaternary ammonium pesticide enhancers..

Tachizawa, Osamu; Tomifuji, Takeshi; Katoh, Tohru; Nishimoto, Uichiro; Nishimoto, Yoshifumi; Sotoya, Kohshiro; Hasebe, Keiko; Hioki, Yuichi (Kao Corp., Japan). Eur. Pat. Appl. EP 597488 A1 19940518, 55 pp. DESIGNATED STATES: R: BE, DE, FR, IT. (English). CODEN: EPXXDW. APPLICATION: EP 1993-118361 19931112. PRIORITY: JP 1992-303978 19921113; JP 1992-303979 19921113; JP 1992-303980 19921113.

AB The activity of pesticides, including herbicides, is enhanced by the quaternary ammonium compds. BCDN+C3H6N(COR1)A X⁻ (I) [A = H, CH2CH2CN, CH2CH2CO2H, CH(CH2CO2Na)CO2Na, CnH2nO(CH2CHRO)pCOR2, etc.; B,C,D = H, Me, Et, etc.; R = H or Me; R1 = C4-30 alkyl or alkenyl; R2 = R1, CmH2mNHCOR1, etc.; m,n = 2-9; p = 0,1-30; X⁻ = counter ion] and related compds. I (A = C3H6NHCOC17H35, B = C = D = Me, R1 = C17H35, X = Cl) (prepn. given) enhanced the activity of Osadan against Tetranychus kanzawai on kidney bean leaves.

L18 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 157249-74-6 REGISTRY

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-3,6,9,12-tetraoxaeicosan-1-aminium chloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. contg. (9CI)

MF C37 H75 N2 O6 . Cl . Unspecified

CI MXS

SR CA

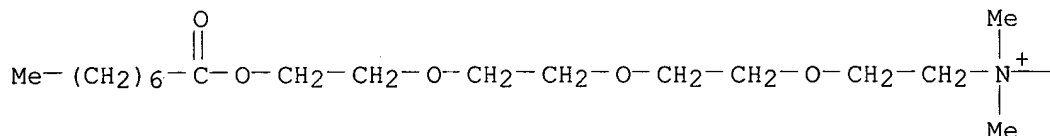
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

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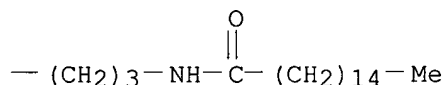
CMF C37 H75 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B



CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:151293 Quaternary ammonium pesticide enhancers..

Tachizawa, Osamu; Tomifuji, Takeshi; Katoh, Tohru; Nishimoto, Uichiro; Nishimoto, Yoshifumi; Sotoya, Kohshiro; Hasebe, Keiko; Hioki, Yuichi (Kao Corp., Japan). Eur. Pat. Appl. EP 597488 A1 19940518, 55 pp. DESIGNATED STATES: R: BE, DE, FR, IT. (English). CODEN: EPXXDW. APPLICATION: EP 1993-118361 19931112. PRIORITY: JP 1992-303978 19921113; JP 1992-303979 19921113; JP 1992-303980 19921113.

AB The activity of pesticides, including herbicides, is enhanced by the quaternary ammonium compds. BCDN+C3H6N(COR1)A X- (I) [A = H, CH2CH2CN, CH2CH2CO2H, CH(CH2CO2Na)CO2Na, CnH2nO(CH2CHRO)pCOR2, etc.; B,C,D = H, Me, Et, etc.; R = H or Me; R1 = C4-30 alkyl or alkenyl; R2 = R1, CmH2mNHCOR1,

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etc.; m,n = 2-9; p = 0,1-30; X- = counter ion] and related compds. I (A = C₃H₆NHCOC₁₇H₃₅, B = C = D = Me, R₁ = C₁₇H₃₅, X = Cl) (prepn. given) enhanced the activity of Osadan against Tetranychus kanzawai on kidney bean leaves.

L18 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 112965-69-2 REGISTRY

CN 11,14,17,20,23-Pentaoxa-2,9-diazaheacos-22-enoic acid, tetramethyl-10,24-dioxotris[(2-propenyloxy)methyl]-, 14-methyl-13-oxotris[(2-propenyloxy)methyl]-3,6,9,12-tetraoxapentadec-14-en-1-yl ester, polymer with 2,2-bis[(3-mercapto-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propanoic acid, 3-mercapto-, 2,2-bis[(3-mercapto-1-oxopropoxy)methyl]-1,3-propanediyl ester, polymer with 14-methyl-13-oxotris[(2-propenyloxy)methyl]-3,6,9,12-tetraoxapentadec-14-en-1-yl tetramethyl-10,24-dioxotris[(2-propenyloxy)methyl]-11,14,17,20,23-pentaoxa-2,9-diazaheacos-25-enoate (9CI)

MF (C₅₉ H₉₈ N₂ O₂₀ : C₁₇ H₂₈ O₈ S₄)x

CI PMS

PCT Polyother

SR CA

LC STN Files: CA, CAPLUS

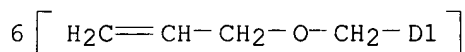
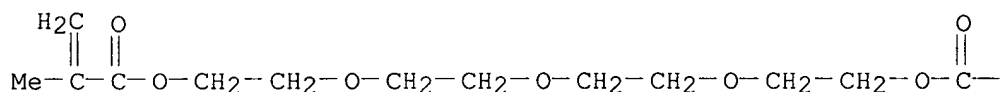
CM 1

CRN 112861-65-1

CMF C₅₉ H₉₈ N₂ O₂₀

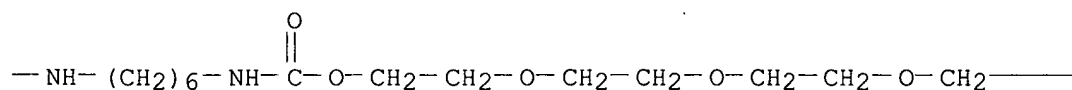
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PAGE 1-A

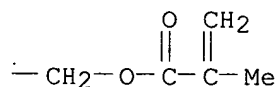


3 (D1-Me)

PAGE 1-B



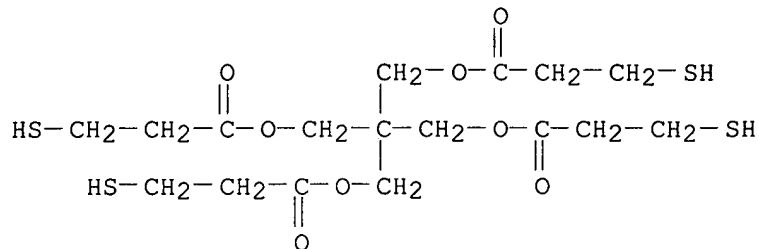
PAGE 1-C



CM 2

CRN 7575-23-7

CMF C17 H28 O8 S4



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 108:96319 Light-curable polyene-polythiol coating materials. Fukuchi, Shuzo; Yamaguchi, Shigeru (Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62241925 A2 19871022 Showa, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-84328 19860414.

AB Coating materials contain compds. having .gtoreq.2 SH groups/mol. and alkenyl group-contg. urethane (meth)acrylates. The reaction of 2-hydroxyethyl methacrylate with allyl glycidyl ether gave $\text{CH}_2:\text{CMeCO}_2\text{CH}_2\text{CH}_2\text{O}[\text{CH}_2\text{CH}(\text{CH}_2\text{OCH}_2\text{CH}:\text{CH}_2)\text{O}]_3\text{H}$ which was treated with 2,4-TDI to give a urethane methacrylate, mixed (60 parts) with 40 parts pentaerythritol tetra(3-mercaptopropenoate), coated on steel, and irradiated with high-pressure Hg lamp to form a coating having pencil hardness 5 H.

L18 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 112925-12-9 REGISTRY

CN 1,2-Benzenedicarboxylic acid, di-2-propenyl ester, polymer with 1,2-ethanediyl bis(mercaptoacetate) and heptamethyl-13,22-dioxobis[(2-propenyloxy)methyl]-3,6,9,12,23,26,29,32-octaoxa-14,21-diazatetratriacontane-1,34-diyl di-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, heptamethyl-13,22-dioxobis[(2-propenyloxy)methyl]-3,6,9,12,23,26,29,32-octaoxa-14,21-diazatetratriacontane-1,34-diyl ester, polymer with di-2-propenyl 1,2-benzenedicarboxylate and 1,2-ethanediyl bis(mercaptoacetate) (9CI)

CN Acetic acid, mercapto-, 1,2-ethanediyl ester, polymer with di-2-propenyl 1,2-benzenedicarboxylate and heptamethyl-13,22-dioxobis[(2-propenyloxy)methyl]-3,6,9,12,23,26,29,32-octaoxa-14,21-diazatetratriacontane-1,34-diyl di-2-propenoate (9CI)

MF (C45 H78 N2 O16 . C14 H14 O4 . C6 H10 O4 S2)x

CI PMS

PCT Polyacrylic, Polyester, Polyether, Polythioether, Polythioether formed, Polyurethane, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

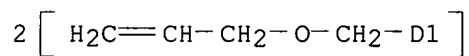
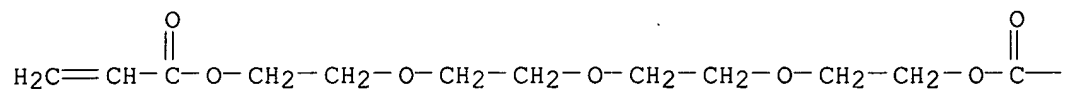
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CMF C45 H78 N2 O16

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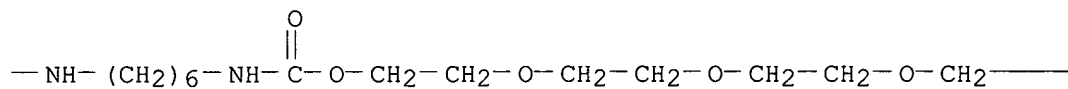
Searched by: Mary Hale 308-4258 CM-1 12D16

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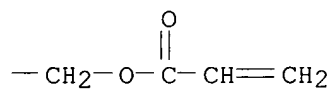


7 (D1-Me)

PAGE 1-B



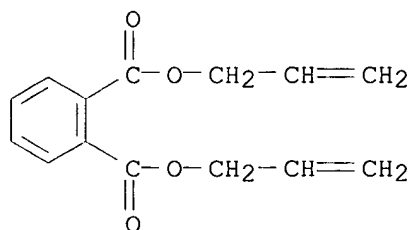
PAGE 1-C



CM 2

CRN 131-17-9

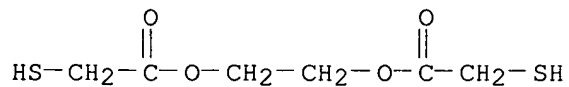
CMF C14 H14 O4



CM 3

CRN 123-81-9

CMF C6 H10 O4 S2



Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

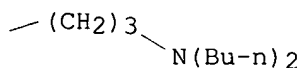
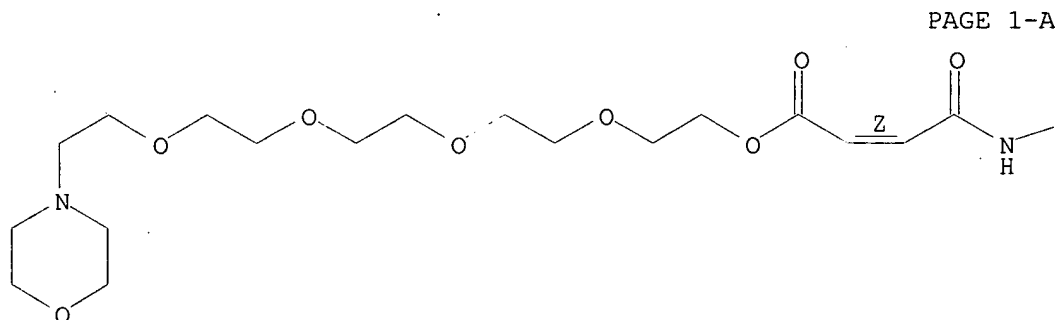
REFERENCE 1: 108:96319 Light-curable polyene-polythiol coating materials.
Fukuchi, Shuzo; Yamaguchi, Shigeru (Nippon Shokubai Kagaku Kogyo Co.,
Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62241925 A2 19871022 Showa, 10
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-84328 19860414.
AB Coating materials contain compds. having .gtoreq.2 SH groups/mol. and
alkenyl group-contg. urethane (meth)acrylates. The reaction of
2-hydroxyethyl methacrylate with allyl glycidyl ether gave
 $\text{CH}_2:\text{CMeCO}_2\text{CH}_2\text{CH}_2\text{O}[\text{CH}_2\text{CH}(\text{CH}_2\text{OCH}_2\text{CH}:\text{CH}_2)\text{O}]_3\text{H}$ which was treated with 2,4-TDI
to give a urethane methacrylate, mixed (60 parts) with 40 parts
pentaerythritol tetra(3-mercaptopropenoate), coated on steel, and
irradiated with high-pressure Hg lamp to form a coating having pencil
hardness 5 H.

L18 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 33660-16-1 REGISTRY
CN Maleamic acid, N-[3-(dibutylamino)propyl]-, ester with
14-morpholino-3,6,9,12-tetraoxatetradecan-1-ol, polymer with methyl
methacrylate and octadecyl methacrylate (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF (C29 H55 N3 O8 . C22 H42 O2 . C5 H8 O2)x
CI PMS
PCT Polyacrylic, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 47820-97-3
CMF C29 H55 N3 O8

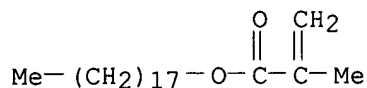
Double bond geometry as shown.



CM 2

CRN 32360-05-7
CMF C22 H42 O2

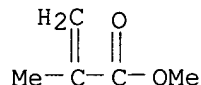
Searched by: Mary Hale 308-4258 CM-1 12D16



CM 3

CRN 80-62-6

CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 74:78124 Lubricating oil additives. (Sanyo Chemical Industries, Ltd.). Fr. Demande FR 2016379 19700508, 17 pp. (French). CODEN: FRXXBL. PRIORITY: JP 19680826.

AB The title additives are oil-sol. copolymers that improve the detergent properties and the viscosity index. Thus, 15 g Me methacrylate, 2.14 g maleic anhydride, and 80 g dodecyl methacrylate was copolymd., and the product esterified with 2.86 g N-(2-hydroxyethyl)morpholine at 170-200.degree. to obtain a lubricating oil additive according to the invention.

=> d 123 que stat;d 1-33 ide cbib abs

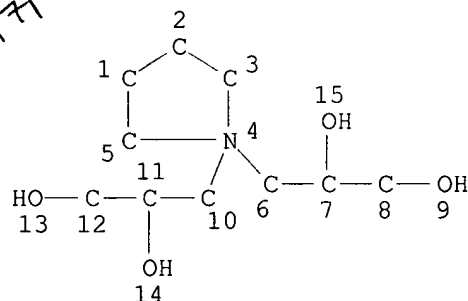
L2

SCR 2043

L19

STR

claim 71



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

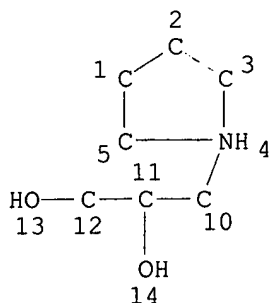
L20

STR

Searched by: Mary Hale 308-4258 CM-1 12D16

claim 73

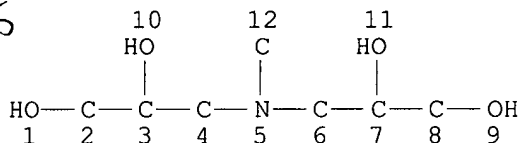
Wang
721291
gt 2/2



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L21 STR



NODE ATTRIBUTES:
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 994 ITERATIONS
SEARCH TIME: 00.00.03

33 ANSWERS

L23 ANSWER 1 OF 33 REGISTRY COPYRIGHT 2001 ACS
RN 323193-47-1 REGISTRY
CN Poly(oxy-1,4-butanediyl), .alpha.-[4-[bis(2,3-dihydroxypropyl)amino]butyl]-
.omega.-[4-[bis(2,3-dihydroxypropyl)amino]butoxy]-, tetra-2-propenoate,
homopolymer (9CI) (CA INDEX NAME)
MF ((C4 H8 O)n C32 H52 N2 O13)x
CI PMS
PCT Polyacrylic, Polyester, Polyether
SR CA
LC STN Files: CA, CAPLUS

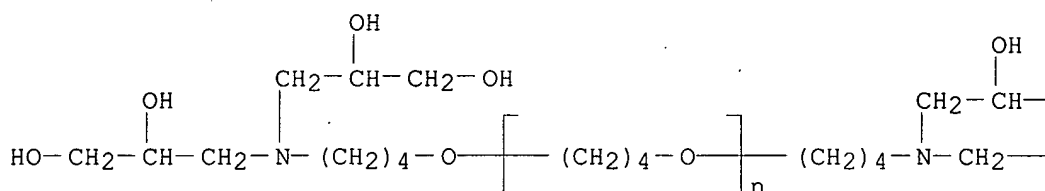
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CRN 323193-46-0
CMF (C4 H8 O)n C32 H52 N2 O13
CCI IDS

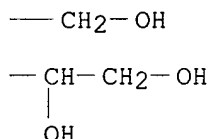
CM 2

CRN 323193-45-9
CMF (C4 H8 O)n C20 H44 N2 O9
CCI PMS

PAGE 1-A

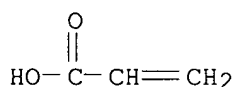


PAGE 1-B



CM 3

CRN 79-10-7
CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:148643 Photocurable compositions as covering materials with low viscosity and Young's modulus for optical fibers. Kaneko, Ichiro; Asano, Masatoshi (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001031731 A2 20010206, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-207418 19990722.

AB The compn. comprises (A) 100 parts radical-curable compd. prepd. by reacting a polyether having .gtoreq.2 epoxy groups/mol with a polymerizable unsatd. group- and carboxylic group-contg. compd.; and (B) 0.01-15 parts photopolymn. initiators. Thus, 100 parts reaction product of polypropylene glycol diglycidyl ether and acrylic acid was mixed with 3 parts 2-hydroxy-2-methyl-1-phenyl-propane-1-one, coated on a glass plate, and UV-cured to give a film showing Young's modulus 0.08 kg/mm², tensile strength 0.10 kg/mm² and elongation 150%.

L23 ANSWER 2 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 323193-46-0 REGISTRY

CN Poly(oxy-1,4-butanediyl), .alpha.-[4-[bis(2,3-dihydroxypropyl)amino]butyl]-
.omega.-[4-[bis(2,3-dihydroxypropyl)amino]butoxy]-, tetra-2-propenoate
(9CI) (CA INDEX NAME)

MF (C4 H8 O)_n C32 H52 N2 O13

CI IDS, COM

PCT Polyether

SR CA

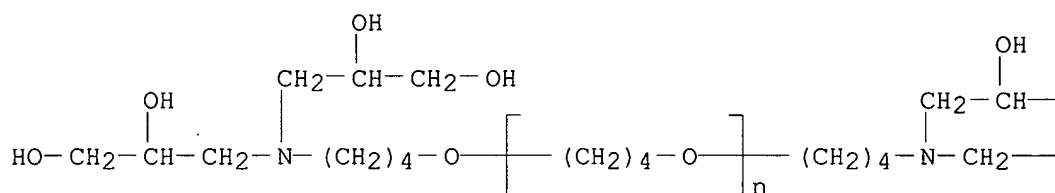
CM 1

CRN 323193-45-9

CMF (C4 H8 O)_n C20 H44 N2 O9

CCI PMS

PAGE 1-A



PAGE 1-B

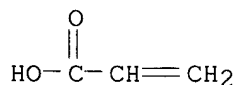
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—CH—CH₂—OH
|
OH

CM 2

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 3 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 323193-45-9 REGISTRY

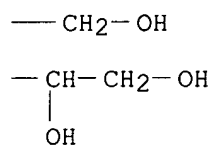
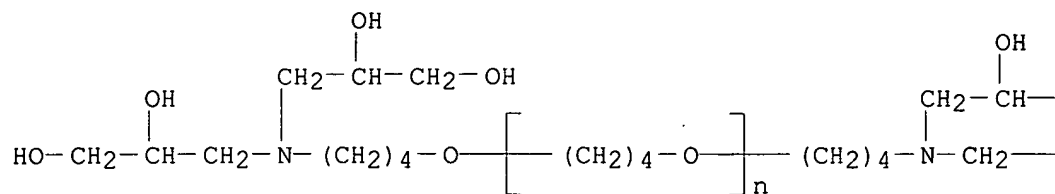
CN Poly(oxy-1,4-butanediyl), .alpha.-[4-[bis(2,3-dihydroxypropyl)amino]butyl]-
.omega.-[4-[bis(2,3-dihydroxypropyl)amino]butoxy]- (9CI) (CA INDEX NAME)

MF (C4 H8 O)_n C20 H44 N2 O9

CI PMS, COM

PCT Polyether

SR CA



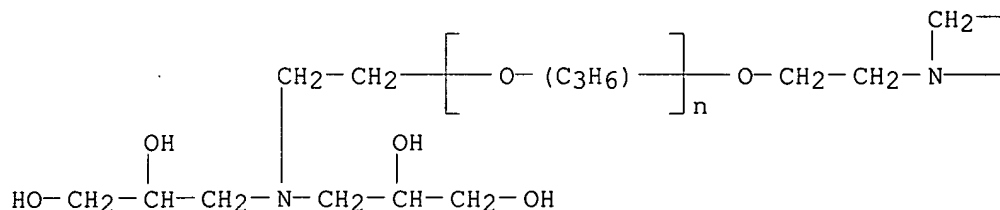
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L23 ANSWER 4 OF 33  REGISTRY  COPYRIGHT 2001 ACS
RN 323193-44-8  REGISTRY
CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-[bis(2,3-
dihydroxypropyl)amino]methylethyl]-.omega.-[2-[bis(2,3-
dihydroxypropyl)amino]methylethoxy]-, tetra-2-propenoate, homopolymer
(9CI) (CA INDEX NAME)
MF ((C3 H6 O)n C30 H48 N2 O13)x
CI PMS
PCT Polyacrylic, Polyester, Polyether
SR CA
LC STN Files: CA, CAPLUS

CM 1

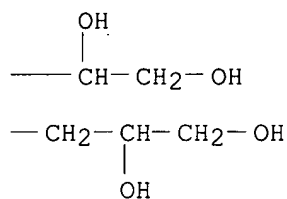
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CMF (C3 H6 O)n C30 H48 N2 O13
CCI IDS

CM 2

CRN 323193-42-6
CMF (C3 H6 O)n C18 H40 N2 O9
CCI IDS, PMS
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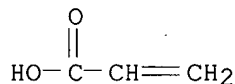
2 (D1-Me)



CM 3

CRN 79-10-7

CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:148643 Photocurable compositions as covering materials with low viscosity and Young's modulus for optical fibers. Kaneko, Ichiro; Asano, Masatoshi (Shin-Etsu Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001031731 A2 20010206, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-207418 19990722.

AB The compn. comprises (A) 100 parts radical-curable compd. prepd. by reacting a polyether having .gtoreq.2 epoxy groups/mol with a polymerizable unsatd. group- and carboxylic group-contg. compd.; and (B) 0.01-15 parts photopolymer. initiators. Thus, 100 parts reaction product of polypropylene glycol diglycidyl ether and acrylic acid was mixed with 3 parts 2-hydroxy-2-methyl-1-phenyl-propane-1-one, coated on a glass plate, and UV-cured to give a film showing Young's modulus 0.08 kg/mm², tensile strength 0.10 kg/mm² and elongation 150%.

L23 ANSWER 5 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 323193-43-7 REGISTRY

CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-[bis(2,3-dihydroxypropyl)amino]methylethyl]-.omega.-[2-[bis(2,3-

dihydroxypropyl)amino]methylethoxy]-, tetra-2-propenoate (9CI) (CA INDEX NAME)

MF (C3 H6 O)_n C30 H48 N2 O13

CI IDS, COM

PCT Polyether

SR CA

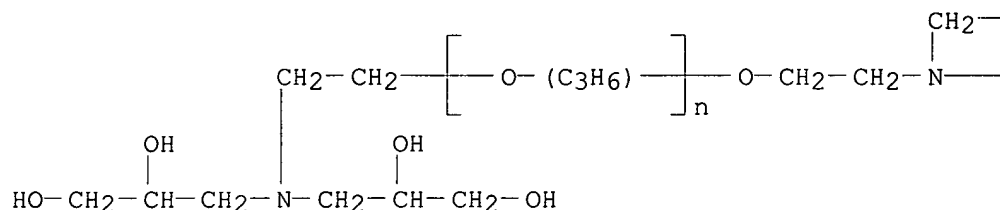
CM 1

CRN 323193-42-6

CMF (C3 H6 O)_n C18 H40 N2 O9

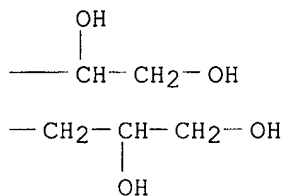
CCI IDS, PMS

PAGE 1-A



2 (D1-Me)

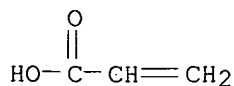
PAGE 1-B



CM 2

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 6 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 323193-42-6 REGISTRY

CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-[bis(2,3-dihydroxypropyl)amino]methylethyl]-.omega.-[2-[bis(2,3-dihydroxypropyl)amino]methylethoxy]- (9CI) (CA INDEX NAME)

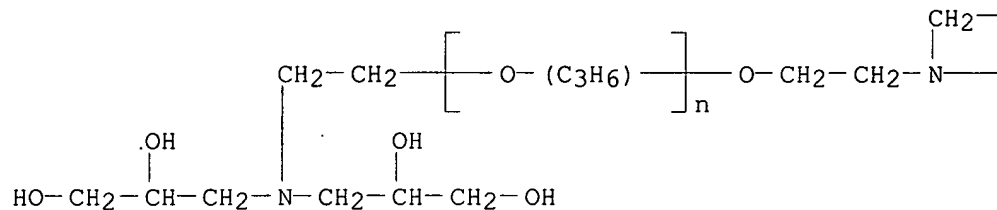
MF (C3 H6 O)_n C18 H40 N2 O9

CI IDS, PMS, COM

Searched by: Mary Hale 308-4258 CM-1 12D16

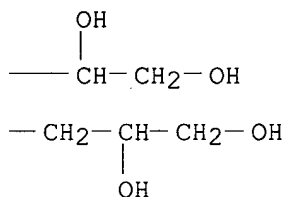
PCT Polyether
SR CA

PAGE 1-A

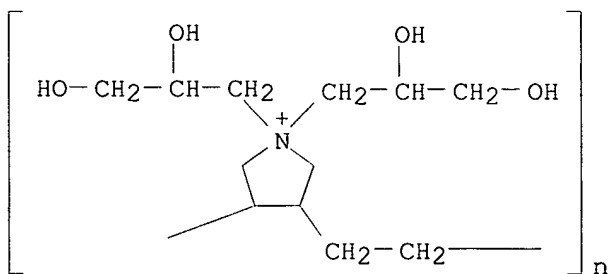


2 (D1-Me)

PAGE 1-B



L23 ANSWER 7 OF 33 REGISTRY COPYRIGHT 2001 ACS
RN 321904-14-7 REGISTRY
CN Poly[[1,1-bis(2,3-dihydroxypropyl)pyrrolidinium-3,4-diyl]-1,2-ethanediyl
chloride] (9CI) (CA INDEX NAME)
MF (C12 H24 N O4)_n . Cl
CI PMS
PCT Polyionene
SR CA
LC STN Files: CA, CAPLUS



● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:131954 Fat-binding polymers for use with lipase inhibitors. Jozefiak, Thomas Henry; Mandeville, W. Harry, III; Holmes-Farley, Stephen Randall; Huval, Chad Cori; Garigapati, Venkata R.; Shackett, Keith K.; Concagh, Danny (Geltex Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2001005408 A1 20010125, 104 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US15958 19990714.

AB Polymers having ether and(or) N-contg. side chains are manufd. for use in binding fat for treatment of obesity. A typical polymer was manufd. by radical polymn. of N-decylacrylamide 2.83, 3-acrylamidopropyltrimethylammonium chloride 18.45, and acrylamide 13.33 g.

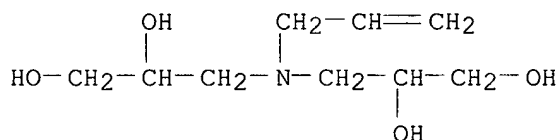
L23 ANSWER 8 OF 33 REGISTRY COPYRIGHT 2001 ACS
 RN 321904-11-4 REGISTRY
 CN 1,2-Propanediol, 3,3'-(2-propenylimino)bis-, homopolymer, hydrochloride (9CI) (CA INDEX NAME)
 MF (C9 H19 N O4)x . x Cl H
 PCT Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 321904-10-3
 CMF (C9 H19 N O4)x
 CCI PMS

CM 2

CRN 321904-09-0
 CMF C9 H19 N O4



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:131954 Fat-binding polymers for use with lipase inhibitors. Jozefiak, Thomas Henry; Mandeville, W. Harry, III; Holmes-Farley, Stephen Randall; Huval, Chad Cori; Garigapati, Venkata R.; Shackett, Keith K.; Concagh, Danny (Geltex Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2001005408 A1 20010125, 104 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE,

SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US15958
19990714.

AB Polymers having ether and(or) N-contg. side chains are manufd. for use in binding fat for treatment of obesity. A typical polymer was manufd. by radical polymn. of N-decylacrylamide 2.83, 3-acrylamidopropyltrimethylammonium chloride 18.45, and acrylamide 13.33 g.

L23 ANSWER 9 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 321904-10-3 REGISTRY

CN 1,2-Propanediol, 3,3'-(2-propenylimino)bis-, homopolymer (9CI) (CA INDEX NAME)

MF (C9 H19 N O4)x

CI PMS, COM

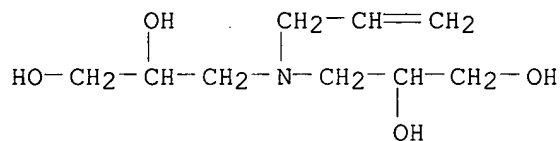
PCT Polyvinyl

SR CA

CM 1

CRN 321904-09-0

CMF C9 H19 N O4



L23 ANSWER 10 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 321904-08-9 REGISTRY

CN 2-Propen-1-aminium, N,N-bis(2,3-dihydroxypropyl)-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

MF (C12 H24 N O4 . Cl)x

CI PMS

PCT Polyvinyl

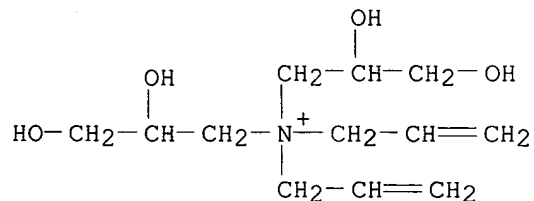
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 321904-07-8

CMF C12 H24 N O4 . Cl



● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 134:131954 Fat-binding polymers for use with lipase inhibitors. Jozefiak, Thomas Henry; Mandeville, W. Harry, III; Holmes-Farley, Stephen Randall; Huval, Chad Cori; Garigapati, Venkata R.; Shackett, Keith K.; Concagh, Danny (Geltex Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2001005408 A1 20010125, 104 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US15958 19990714.

AB Polymers having ether and(or) N-contg. side chains are manufd. for use in binding fat for treatment of obesity. A typical polymer was manufd. by radical polymn. of N-decylacrylamide 2.83, 3-acrylamidopropyltrimethylammonium chloride 18.45, and acrylamide 13.33 g.

L23 ANSWER 11 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 278798-81-5 REGISTRY

CN Oxiranemethanol, homopolymer, ether with 3,3'-(octadecylimino)bis[1,2-propanediol] (9CI) (CA INDEX NAME)

MF C24 H51 N O4 : x (C3 H6 O2)x

PCT Polyether, Polyether formed

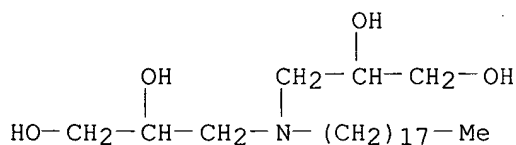
SR CA

LC STN Files: CA, CAPLUS

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CRN 60659-43-0

CMF C24 H51 N O4



CM 2

CRN 25722-70-7

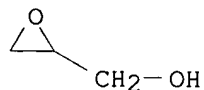
CMF (C3 H6 O2)x

CCI PMS

CM 3

CRN 556-52-5

CMF C3 H6 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:74520 Method for producing highly branched glycidol-based polyols. Sunder, Alexander; Mulhaupt, Rolf (Bayer Aktiengesellschaft, Germany). PCT Int. Appl. WO 2000037532 A2 20000629, 13 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 1999-EP9773 19991210. PRIORITY: DE 1998-19859300 19981222; DE 1999-19947631 19991004.

AB Highly branched polyols with d.p. 1-300 and polydispersity <1.7, in which 10-33% of the monomer units are branch points, are obtained by (co)polymerization of glycidol in the presence of an active-H initiator with basic catalysis. Glycidol is added as a dil. soln., and the solvent used for the diln. is continuously removed by distn. The resulting polyols are colorless and contain the initiator only as a core unit. Thus, 1.2 g trimethylolpropane was mixed with 0.7 mL 25% KOMe in MeOH at 100.degree., the MeOH was distilled, and the product was taken up in 15 mL diglyme. A soln. of 34 g glycidol in 100 mL THF was added to the diglyme soln. at 140.degree. at the rate of 5 mL/h with continuous distn. of THF to give a viscous liq. product, after neutralization with Amberlite IR 120, having mol. wt. 3700 and polydispersity 1.15, in which 26% of the monomer units were branched.

L23 ANSWER 12 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 194714-07-3 REGISTRY

CN Silanediol, [3-[[2-[bis(2,3-dihydroxypropyl)amino]ethyl](2,3-dihydroxypropyl)amino]propyl]methyl-, polymer with dimethylsilanediol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Silanediol, dimethyl-, polymer with [3-[[2-[bis(2,3-dihydroxypropyl)amino]ethyl](2,3-dihydroxypropyl)amino]propyl]methylsilanediol (9CI)

MF (C15 H36 N2 O8 Si . C2 H8 O2 Si)x

CI PMS

PCT Polyether, Polyether only

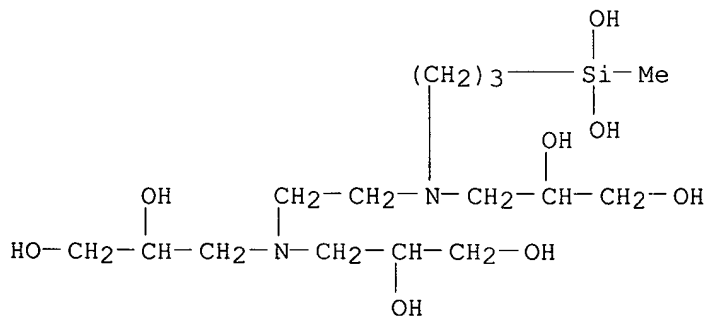
SR CA

LC STN Files: CA, CAPLUS, TOXLIT

CM 1

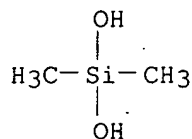
CRN 194714-06-2

CMF C15 H36 N2 O8 Si



CM 2

CRN 1066-42-8
CMF C2 H8 O2 Si



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

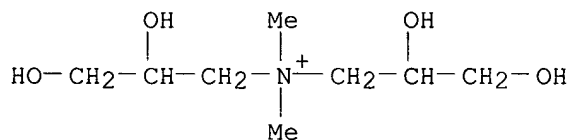
REFERENCE 1: 127:210190 Hair cosmetics containing organopolysiloxanes.
Kuwata, Satoshi; Nezu, Sachiko (Shin-Etsu Chemical Industry Co., Ltd.,
Japan). Jpn. Kokai Tokkyo Koho JP 09194335 A2 19970729 Heisei, 7 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-23221 19960117.

AB Hair cosmetics showing excellent dispersibility in water contain
organopolysiloxanes [markush and preps. given]. A shampoo contained the
organopolysiloxane 0.5, steryltrimethylammonium chloride 2,
polyoxyethylene cetyl ether 1, and water 95.9%. Hair appeared soft and
shinny after treatment.

L23 ANSWER 13 OF 33 REGISTRY COPYRIGHT 2001 ACS
RN 178150-31-7 REGISTRY
CN Oxirane, methyl-, polymer with oxirane, ether with N-(2,3-dihydroxypropyl)-
2,3-dihydroxy-N,N-dimethyl-1-propanaminium (2:1), bis(dinonylphenyl) ether
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with N-(2,3-dihydroxypropyl)-
2,3-dihydroxy-N,N-dimethyl-1-propanaminium (2:1), bis(dinonylphenyl) ether
(9CI)
MF C24 H42 O . 1/2 C8 H20 N O4 . (C3 H6 O . C2 H4 O)x
CI COM
PCT Polyether, Polyether formed
SR CA

CM 1

CRN 177966-40-4
CMF C8 H20 N O4

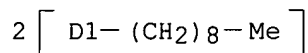


CM 2

CRN 1323-65-5
CMF C24 H42 O
CCI IDS



D1-OH



CM 3

CRN 9003-11-6

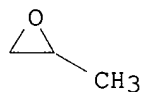
CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O



L23 ANSWER 14 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 174881-70-0 REGISTRY

CN Poly[[(3-hydroxypropyl) [3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)

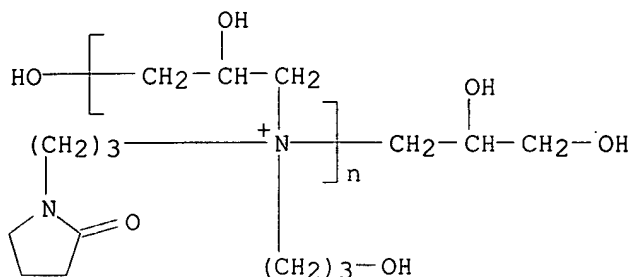
MF (C13 H25 N2 O3)n C3 H8 O3 . Cl

AF (C13 H25 N2 O3 . Cl)n C3 H8 O3

CI PMS, COM

PCT Polyionene

SR CA



● Cl⁻

L23 ANSWER 15 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 170207-80-4 REGISTRY

CN 1,2-Propanediol, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis-, polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)], 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine, 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Benzenediamine, 2,4(or 4,6)-diethyl-6(or 2)-methyl-, polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)], 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[1,2-propanediol], 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) (9CI)

CN Benzene, 1,1'-methylenebis[4-isocyanato-, polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)], 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[1,2-propanediol], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) (9CI)

CN Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)], 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[1,2-propanediol], 1,1'-methylenebis[4-isocyanatobenzene] and [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] (9CI)

CN Oxirane, polymer with methyloxirane, ether with 1,2,3-propanetriol (3:1), polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)], 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[1,2-propanediol], 1,1'-methylenebis[4-isocyanatobenzene] and [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] (9CI)

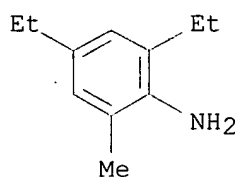
CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-, polymer with 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[1,2-propanediol], 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) (9CI)

CN Propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-, polymer with .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)poly[oxy(methyl-

1,2-ethanediyl)], 2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benzenediamine,
 3,3',3'',3'''-(1,2-ethanediyl)dinitrilo)tetrakis[1,2-propanediol],
 1,1'-methylenebis[4-isocyanatobenzene] and methyloxirane polymer with
 oxirane ether with 1,2,3-propanetriol (3:1) (9CI)
 MF (C15 H10 N2 O2 . C14 H32 N2 O8 . C11 H18 N2 . C9 H20 O4 . C3 H8 O3 . (C3
 H6 O)n C6 H16 N2 O . 3 (C3 H6 O . C2 H4 O)x)x
 CI PMS
 PCT Polyamine, Polyether, Polyether formed, Polyurea, Polyurea formed,
 Polyurethane, Polyurethane formed
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

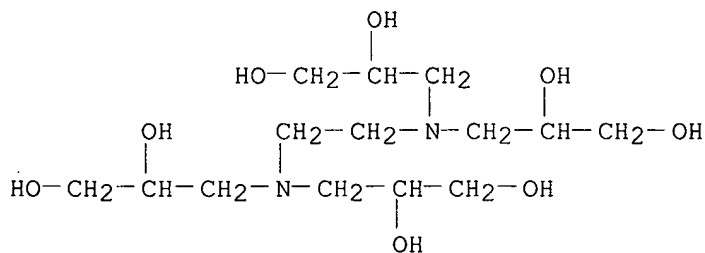
CRN 75389-89-8
 CMF C11 H18 N2
 CCI IDS



D1-NH2

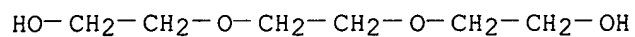
CM 2

CRN 64504-51-4
 CMF C14 H32 N2 O8



CM 3

CRN 24800-44-0
 CMF C9 H20 O4
 CCI IDS



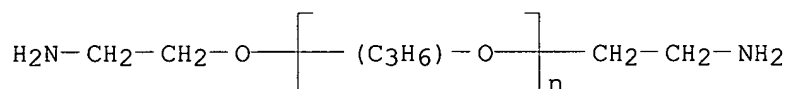
3 (D1-Me)

CM 4

CRN 9046-10-0

CMF (C3 H6 O)_n C6 H16 N2 O

CCI IDS, PMS

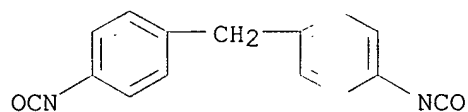


2 (D1-Me)

CM 5

CRN 101-68-8

CMF C15 H10 N2 O2



CM 6

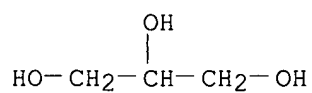
CRN 9082-00-2

CMF C3 H8 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 7

CRN 56-81-5

CMF C3 H8 O3



CM 8

CRN 9003-11-6

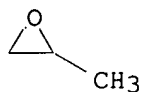
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 9

CRN 75-56-9

CMF C3 H6 O



CM 10

CRN 75-21-8

CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:315656 Preparation of filled urethane-based reinforced moldings with good physical properties. Hurley, Michael F.; Lau, Clifford J.; Lee, Bin (Miles Inc., USA). Can. Pat. Appl. CA 2131048 AA 19950318, 29 pp. (English). CODEN: CPXXEB. APPLICATION: CA 1994-2131048 19940829. PRIORITY: US 1993-123318 19930917.

AB A reaction injection molding process for prepg. a molded product having a d. .gtoreq.0.80 g/cm3 comprises reaction of a mixt. of (a) an org. polyisocyanate; (b) .gtoreq.1 compds. contg. .gtoreq.2 isocyanate-reactive groups; (c) .apprx.2-20% rigid fibers having a diam. .apprx.5-10 .mu.m and a length ranging from the diam. of the fiber up to .apprx.2 mm, preferably in admixt. with component (b); and, optionally, (d) an inert gas dissolved in .gtoreq.1 of components (a) or (b), and (e) .ltoreq.15% of a filler other than rigid fibers (c). Reinforced polyurethane prepd. using milled glass fiber of diam. .apprx.5-10 .mu.m exhibits phys. properties equal to or better than reinforced polyurethane contg. more than twice the quantity of 16-.mu.m-glass fiber.

L23 ANSWER 16 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 160938-75-0 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ether with 1,1'-[(2-hydroxyethyl)methyliminio]bis[1-deoxy-D-glucitol], phosphate (1:1:1) (9CI) (CA INDEX NAME)

MF (C2 H4 O)n C15 H34 N O11 . H2 O4 P

PCT Polyether

SR CA

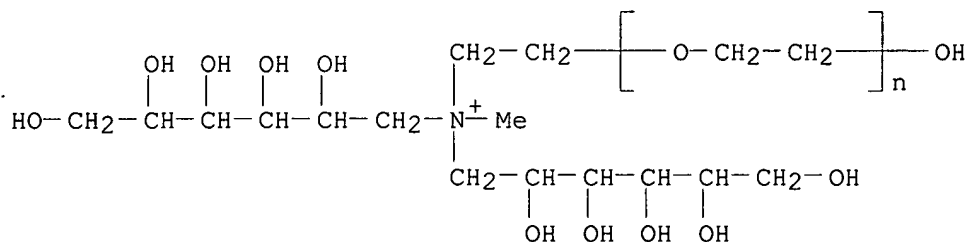
LC STN Files: CA, CAPLUS

CM 1

CRN 160938-74-9

CMF (C2 H4 O)n C15 H34 N O11

CCI PMS



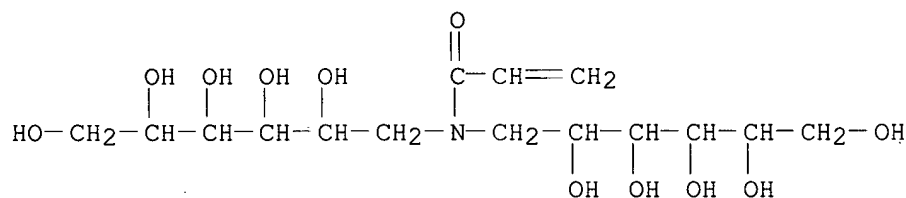
L23 ANSWER 18 OF 33 REGISTRY COPYRIGHT 2001 ACS
 RN 160707-55-1 REGISTRY
 CN D-Glucitol, 1,1'-[(1-oxo-2-propenyl)imino]bis[1-deoxy-, homopolymer (9CI)
 (CA INDEX NAME)

OTHER NAMES:

CN Poly[N-acryloyl-N,N-bis(1-deoxy-D-glucitol)]
 MF (C15 H29 N O11)x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 160707-54-0
 CMF C15 H29 N O11



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:118849 Silver halide photographic materials. Ihara, Kazuhito; Tachibana, Noriki; Morita, Seiwa; Kotani, Chiaki (Konishiroku Photo Ind, Japan). Jpn. Kokai Tokkyo Koho JP 06242532 A2 19940902 Heisei, 33 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-25725 19930215.
 AB The title photog. material contains .gtoreq.1 polymer having a structural unit CH2CR3[LNR2CHR1(CHOH)nCH2OH] [R1 = H, (CHOH)mCH2OH; R2 = H, monohydroxyalkyl, polyhydroxyalkyl, C1-30 hydrocarbon; R3 = H, Me; L = divalent linking group; m = 0-2; n = 1-4] in .gtoreq.1 of layers formed on a support. The compd. improves the coatability and the phys. strength of the layers without adverse effects on the photog. properties. Thus, a PET film coated with a backing layer and a protective layer on the back side was coated with a Ag(Cl, Br) emulsion contg. poly(N-acryloyl-N-ethyl-1-amino-1-deoxy-D-galactitol) and with a protective layer to give a photog. film.

L23 ANSWER 19 OF 33 REGISTRY COPYRIGHT 2001 ACS
 RN 140852-67-1 REGISTRY
 CN D-Galactitol, 1,1'-[(1-oxo-2-propenyl)imino]bis[1-deoxy-, polymer with N,N'-methylenebis[2-propenamide] (9CI) (CA INDEX NAME)

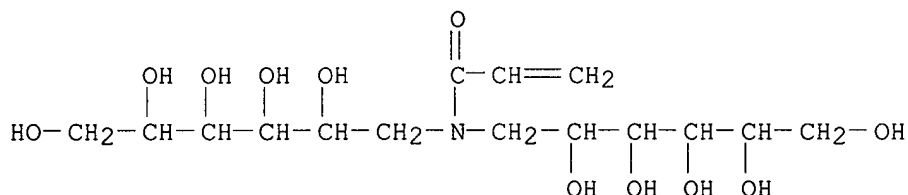
Searched by: Mary Hale 308-4258 CM-1 12D16

OTHER CA INDEX NAMES:

CN 2-Propenamide, N,N'-methylenebis-, polymer with 1,1'-[(1-oxo-2-propenyl)imino]bis[1-deoxy-D-galactitol] (9CI)
 MF (C15 H29 N O11 . C7 H10 N2 O2)x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

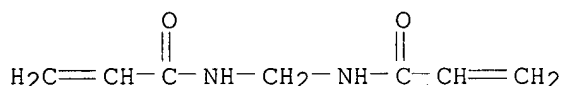
CM 1

CRN 140713-82-2
 CMF C15 H29 N O11



CM 2

CRN 110-26-9
 CMF C7 H10 N2 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:118041 Hydrophilic and amphipathic acrylic monomers, and their preparation. Kozulic, Branko; Heimgartner, Urs (Switz.). U.S. US 5185466 A 19930209, 19 pp. Cont.-in-part of U.S. Ser. No. 293,840, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1991-688752 19910422. PRIORITY: US 1989-293840 19890105; GB 1990-8873 19900420.

AB The monomers (M) are amides derived from (meth)acrylic acid and amino sugars; polymers derived from M alone or with other comonomers via common radical polymn. were prepd. and are useful, esp. in the form of crosslinked gels, in sepns. by electrophoresis and chromatog. Thus, reaction of 2-amino-2-deoxy-D-glucitol with acryloyl chloride gave N-acryloyl-2-amino-2-deoxy-D-glucitol, which could be polymd. using persulfate to a water-insol. polymer gel (the electrophoresis run using this gel was also demonstrated).

REFERENCE 2: 116:195102 Hydrophilic and amphipathic acrylic monomers for use in preparing electrophoretic gels. Kozulic, Branko; Heimgartner, Urs (Switz.). Brit. UK Pat. Appl. GB 2246127 A1 19920122, 29 pp. (English). CODEN: BAXXDU. APPLICATION: GB 1990-8873 19900420.

AB Acrylic monomers CH₂:CR₃CONR₂CHR₁(CHOH)_nCH₂OH [R₁ = H, (CHOH)_m; m = 0, 1, 2; R₂ = hydroxyalkyl, polyhydroxyalkyl, C₂-30 hydrocarbon moiety; R₃ = H, Me; n = 1-4] are prepd. and (co)polymd. and optionally cross-linked to gels useful in electrophoretic sepns. Thus, N-acryloyl-N-ethyl-1-amino-1-deoxy-D-galactitol (prepd. from N-ethyl-1-amino-1-deoxy-D-galactitol and

acryloyl chloride) was prepd. and polymd. with N,N'-methylenebisacrylamide to a transparent gel, which was run for 3 h in a submerged electrophoretic gel app. at 4 V/cm, stained with bromphenol blue, and used to sep. 3 std. DNA mixts., with resoln. of bands.

L23 ANSWER 20 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 139246-68-7 REGISTRY

CN Poly[[[3-hydroxypropyl][3-(2-oxo-1-pyrrolidinyl)propyl]iminio](2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-, ether with methyloxirane polymer with oxirane mono(2-propylnonyl) ether (9CI) (CA INDEX NAME)

MF (C13 H25 N2 O3)n C3 H8 O3 . C12 H26 O . (C3 H6 O . C2 H4 O)x . Cl

PCT Polyether, Polyether formed, Polyionene

SR CA

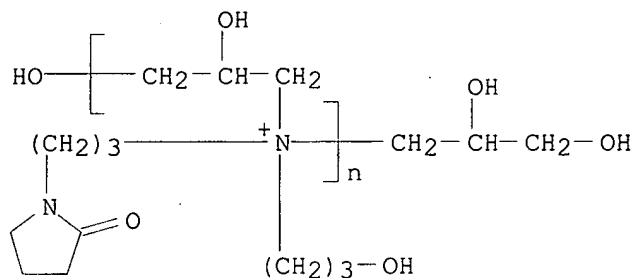
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

CM 1

CRN 174881-70-0

CMF (C13 H25 N2 O3)n C3 H8 O3 . Cl

CCI PMS

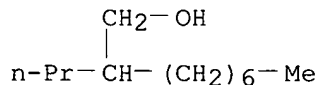


● Cl⁻

CM 2

CRN 54381-04-3

CMF C12 H26 O



CM 3

CRN 9003-11-6

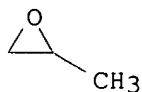
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

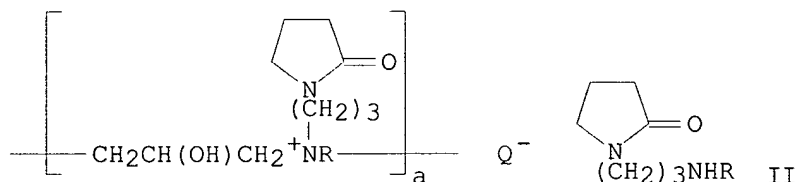
CRN 75-21-8
CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:113314 Preparation of novel cationic lactam polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair conditioners.. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US 5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1990-518491 19900503.

GI

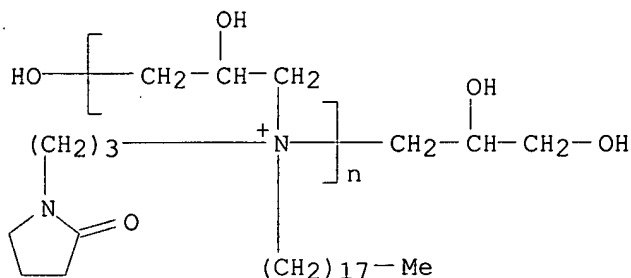


AB Title polymeric quaternary compds. I [R = Me(CH₂)_b, Me(CH₂)_c(CH:CH)(CH₂)_d, Me(CH₂)_eCHMe(CH₂)_f, Me(CH₂)_bOR₁(CH₂)₃, Me(CH₂)_dCHMe(CH₂)_eOR₁(CH₂)₃, Me(CH₂)_nCH[(CH₂)_mMe]CH₂OR₁(CH₂)₃; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R₁ = (CH₂CH₂O)_x(CH₂CHMeO)_y(CH₂CH₂O)_z; x, y, z = 0-20; Q = anion] are prep'd. Also given are the prepn. of pyrrolidones (II). Me(CH₂)₁₁NH(CH₂)₃NH₂ and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH₂)₁₁] (III). III and H₂O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

L23 ANSWER 21 OF 33 REGISTRY COPYRIGHT 2001 ACS
RN 138441-86-8 REGISTRY
CN Poly[[octadecyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio](2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)
MF (C₂₈ H₅₅ N₂ O₂)_n C₃ H₈ O₃ . Cl
AF (C₂₈ H₅₅ N₂ O₂ . Cl)_n C₃ H₈ O₃
CI PMS

Searched by: Mary Hale 308-4258 CM-1 12D16

PCT Polyionene
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

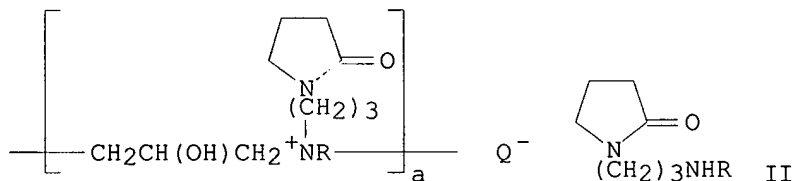


● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:113314 Preparation of novel cationic lactam polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair conditioners. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US 5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1990-518491 19900503.

GI



AB Title polymeric quaternary compds. I [R = Me(CH₂)_b, Me(CH₂)_c(CH:CH)(CH₂)_d, Me(CH₂)_eCHMe(CH₂)_f, Me(CH₂)_bOR₁(CH₂)₃, Me(CH₂)_dCHMe(CH₂)_eOR₁(CH₂)₃, Me(CH₂)_nCH[(CH₂)_mMe]CH₂OR₁(CH₂)₃; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R₁ = (CH₂CH₂O)_x(CH₂CHMeO)_y(CH₂CH₂O)_z; x, y, z = 0-20; Q = anion] are prepd. Also given are the prepn. of pyrrolidones (II). Me(CH₂)₁₁NH(CH₂)₃NH₂ and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH₂)₁₁] (III). III and H₂O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

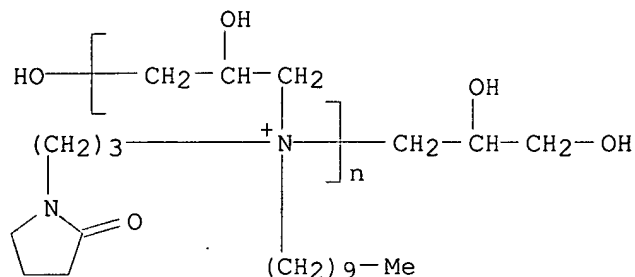
L23 ANSWER 22 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 138416-97-4 REGISTRY

CN Poly[[decyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio](2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 12D16

MF (C20 H39 N2 O2)n C3 H8 O3 . Cl
 AF (C20 H39 N2 O2 . Cl)n C3 H8 O3
 CI PMS
 PCT Polyionene
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

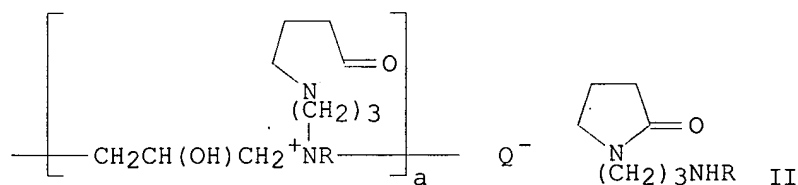


● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:113314 Preparation of novel cationic lactam polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair conditioners. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US 5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1990-518491 19900503.

GI

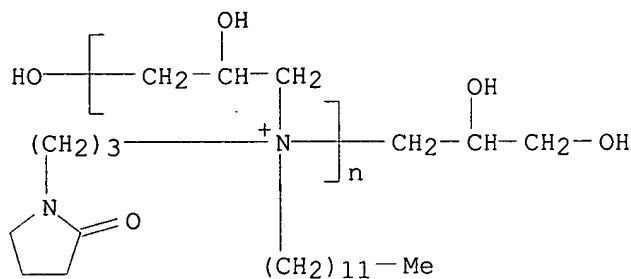


AB Title polymeric quaternary compds. I [R = Me(CH2)b, Me(CH2)c(CH:CH)(CH2)d, Me(CH2)eCHMe(CH2)f, Me(CH2)bOR1(CH2)3, Me(CH2)dCHMe(CH2)eOR1(CH2)3, Me(CH2)nCH[(CH2)mMe]CH2OR1(CH2)3; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R1 = (CH2CH2O)x(CH2CHMeO)y(CH2CH2O)z; x, y, z = 0-20; Q = anion] are prepd. Also given are the prepn. of pyrrolidones (II). Me(CH2)11NH(CH2)3NH2 and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH2)11] (III). III and H2O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

L23 ANSWER 23 OF 33 REGISTRY COPYRIGHT 2001 ACS
 RN 138416-96-3 REGISTRY

Searched by: Mary Hale 308-4258 CM-1 12D16

CN Poly[[dodecyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)
 MF (C22 H43 N2 O2)n C3 H8 O3 . Cl
 AF (C22 H43 N2 O2 . Cl)n C3 H8 O3
 CI PMS
 PCT Polyionene
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

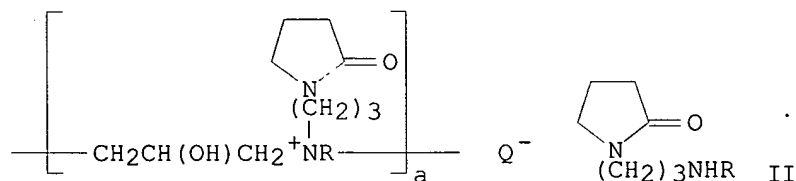


● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:113314 Preparation of novel cationic lactam polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair conditioners. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US 5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1990-518491 19900503.

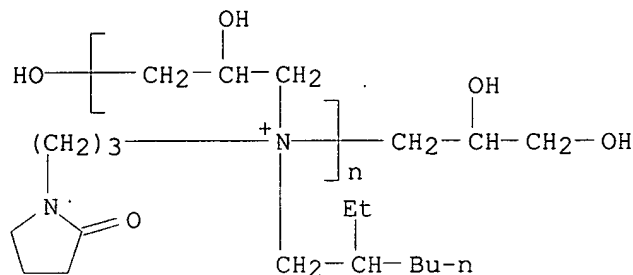
GI



AB Title polymeric quaternary compds. I [R = Me(CH2)b, Me(CH2)c(CH:CH)(CH2)d, Me(CH2)eCHMe(CH2)f, Me(CH2)bOR1(CH2)3, Me(CH2)dCHMe(CH2)eOR1(CH2)3, Me(CH2)nCH[(CH2)mMe]CH2OR1(CH2)3; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R1 = (CH2CH2O)x(CH2CHMeO)y(CH2CH2O)z; x, y, z = 0-20; Q = anion] are prepd. Also given are the prepn. of pyrrolidones (II). Me(CH2)11NH(CH2)3NH2 and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH2)11] (III). III and H2O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

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L23 ANSWER 24 OF 33 REGISTRY COPYRIGHT 2001 ACS
 RN 138392-48-0 REGISTRY
 CN Poly[[(2-ethylhexyl) [3-(2-oxo-1-pyrrolidiny)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-
 (9CI) (CA INDEX NAME)
 MF (C18 H35 N2 O2)n C3 H8 O3 . Cl
 AF (C18 H35 N2 O2 . Cl)n C3 H8 O3
 CI PMS
 PCT Polyionene
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

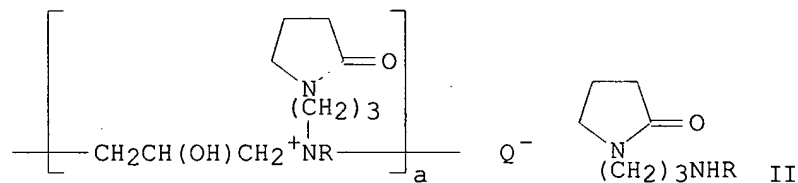


● Cl⁻

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:113314 Preparation of novel cationic lactam polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair conditioners. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US 5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1990-518491 19900503.

GI



AB Title polymeric quaternary compds. I [R = Me(CH2)b, Me(CH2)c(CH:CH)(CH2)d, Me(CH2)eCHMe(CH2)f, Me(CH2)bOR1(CH2)3, Me(CH2)dCHMe(CH2)eOR1(CH2)3, Me(CH2)nCH[(CH2)mMe]CH2OR1(CH2)3; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R1 = (CH2CH2O)x(CH2CHMeO)y(CH2CH2O)z; x, y, z = 0-20; Q = anion] are prepd. Also given are the prepn. of pyrrolidones (II). Me(CH2)11NH(CH2)3NH2 and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH2)11] (III). III and H2O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties

Searched by: Mary Hale 308-4258 CM-1 12D16

of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

L23 ANSWER 25 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 125052-66-6 REGISTRY

CN 2-Propenoic acid, butyl ester, telomer with ethyl 2-propenoate and mercaptoacetic acid, ester with 3,3',3'',3'''-[methylenebis(3,1-phenylenemethylenenitrilo)]tetrakis[1,2-propanediol] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, ethyl ester, telomer with butyl 2-propenoate and mercaptoacetic acid, ester with 3,3',3'',3'''-[methylenebis(3,1-phenylenemethylenenitrilo)]tetrakis[1,2-propanediol] (9CI)

CN Acetic acid, mercapto-, telomer with butyl 2-propenoate and ethyl 2-propenoate, ester with 3,3',3'',3'''-[methylenebis(3,1-phenylenemethylenenitrilo)]tetrakis[1,2-propanediol] (9CI)

MF C27 H42 N2 O8 . x (C7 H12 O2 . C5 H8 O2)x . x C2 H4 O2 S

PCT Polyacrylic

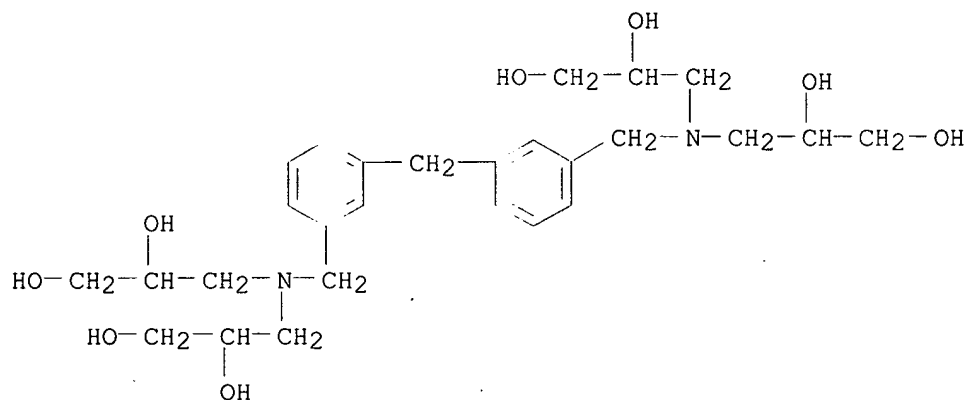
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 192526-02-6

CMF C27 H42 N2 O8



CM 2

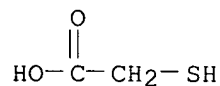
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CMF (C7 H12 O2 . C5 H8 O2)x . C2 H4 O2 S

CM 3

CRN 68-11-1

CMF C2 H4 O2 S

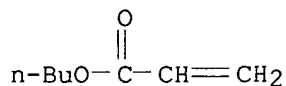


CM 4

CRN 26353-42-4
CMF (C7 H12 O2 . C5 H8 O2)x
CCI PMS

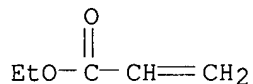
CM 5

CRN 141-32-2
CMF C7 H12 O2



CM 6

CRN 140-88-5
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:100315 Acrylic pressure-sensitive adhesives. Ando, Masahiko; Sunakawa, Makoto (Nitto Denko Corp., Japan). Jpn. Kokai Tokkyo Koho JP 01193384 A2 19890803 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-18654 19880129.

AB Heat-resistant title adhesives with well-balanced adhesion and cohesion consist of branched polymers [contg. 50-100% CH₂:CR₁CO₂R₂ (R₁ = H, Me; R₂ = C₂-14 alkyl)] whose wt. av. mol. wt. in gel permeation chromatog. by light scattering method (A) and polystyrene conversion (B) show relation A/B .gtoreq.1.3. Thus, a macromonomer prep'd. from 2-ethylhexyl acrylate (I), Bu acrylate (II), thioglycollic acid, and glycidyl methacrylate was treated with I, II, and acrylic acid to give a graft copolymer (III) (A/B 1.36), which was used to make an adhesive tape showing peeling strength 1280 g/20 mm and good heat resistance, vs. 860 and poor, resp., using II-Et acrylate copolymer (A/B 1.03) instead of III.

L23 ANSWER 26 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 116107-96-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), ethenylbenzene and 2,5-furandione (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), ethenylbenzene and methyl 2-methyl-2-propenoate (9CI)

CN Benzene, ethenyl-, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), 2,5-furandione and methyl 2-methyl-2-propenoate (9CI)

Searched by: Mary Hale 308-4258 CM-1 12D16

CN Poly(oxy-1,4-butanediyl), .alpha.-[3-[bis(2,3-
 dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-
 dihydroxypropyl)amino]propoxy]-, polymer with ethenylbenzene,
 2,5-furandione and methyl 2-methyl-2-propenoate (9CI)
 MF (C8 H8 . C5 H8 O2 . (C4 H8 O)n C18 H40 N2 O9 . C4 H2 O3)x
 CI PMS
 PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polystyrene,
 Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

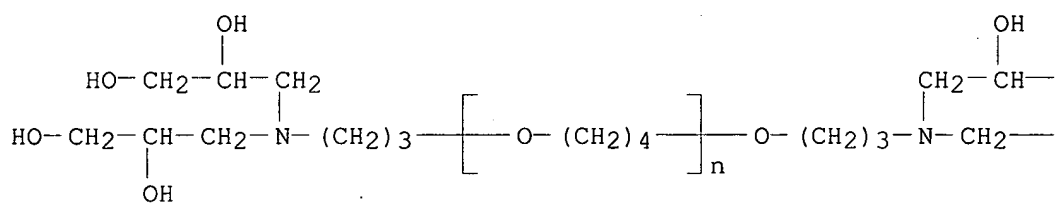
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CRN 116107-89-2

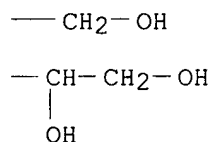
CMF (C4 H8 O)n C18 H40 N2 O9

CCI PMS

PAGE 1-A



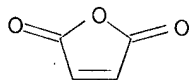
PAGE 1-B



CM 2

CRN 108-31-6

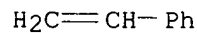
CMF C4 H2 O3



CM 3

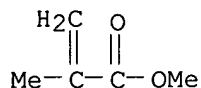
CRN 100-42-5

CMF C8 H8



CM 4

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:94880 Coating composition. Andrews, Adrian Ferguson; Hugh, Nicolas Saint John; Nunn, Michael John (International Paint PLC, UK). Eur. Pat. Appl. EP 259172 A2 19880309, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-307814 19870904. PRIORITY: GB 1986-21472 19860905.

AB Title compn. for coatings with good resistance to impact and abrasion comprises anhydride polymer contg. .gtoreq.2 cyclic carboxylic acid anhydride groups, and polymer with anhydride-reactive groups, such as hydroxyalkylamino, hydroxyalkoxyalkylamino, OH-substituted (poly)acryloxyalkylamino, mercaptoalkylamino, and oxazolidino, either polymer contg. .gtoreq.1 flexible chain unit. Thus, condensing 28.6 g Ph glycidyl ether with 100 g bis(3-aminopropyl)polytetramethylene glycol (mol. wt. 2100) gave a .beta.-hydroxyalkylamine functional resin, 135.0 g of which was mixed with 112.0 g itaconic anhydride-Me methacrylate-styrene copolymer in anhydride/OH group mol ratio 1:1, coated on steel plates at 20.degree., and dried for 24 h to a flexible, clear, tack-free film.

L23 ANSWER 27 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 116107-91-6 REGISTRY

CN Poly(oxy-1,4-butanediyl), .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]-, homopolymer (9CI) (CA INDEX NAME)

MF ((C4 H8 O)n C18 H40 N2 O9)x

CI PMS

PCT Polyether, Polyether formed

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

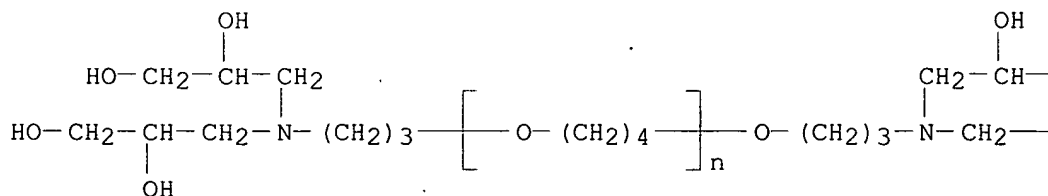
CM 1

CRN 116107-89-2

CMF (C4 H8 O)n C18 H40 N2 O9

CCI PMS

PAGE 1-A



$$\text{---CH}_2\text{---OH}$$

$$\begin{array}{c} \text{---CH---CH}_2\text{---OH} \\ | \\ \text{OH} \end{array}$$

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:94880 Coating composition. Andrews, Adrian Ferguson; Hugh, Nicolas Saint John; Nunn, Michael John (International Paint PLC, UK). Eur. Pat. Appl. EP 259172 A2 19880309, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-307814 19870904. PRIORITY: GB 1986-21472, 19860905.

AB Title compn. for coatings with good resistance to impact and abrasion comprises anhydride polymer contg. .gtoreq.2 cyclic carboxylic acid anhydride groups, and polymer with anhydride-reactive groups, such as hydroxyalkylamino, hydroxyalkoxyalkylamino, OH-substituted (poly)acryloxyalkylamino, mercaptoalkylamino, and oxazolidino, either polymer contg. .gtoreq.1 flexible chain unit. Thus, condensing 28.6 g Ph glycidyl ether with 100 g bis(3-aminopropyl)polytetramethylene glycol (mol. wt. 2100) gave a .beta.-hydroxyalkylamine functional resin, 135.0 g of which was mixed with 112.0 g itaconic anhydride-Me methacrylate-styrene copolymer in anhydride/OH group mol ratio 1:1, coated on steel plates at 20.degree., and dried for 24 h to a flexible, clear, tack-free film.

L23 ANSWER 28 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 116107-90-5 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), dihydro-3-methylene-2,5-furandione and ethenylbenzene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-3-methylene-, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), ethenylbenzene and methyl 2-methyl-2-propenoate (9CI)

CN Benzene, ethenyl-, polymer with .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), dihydro-3-methylene-2,5-furandione and methyl 2-methyl-2-propenoate (9CI)

CN Poly(oxy-1,4-butanediyl), .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]-, polymer with dihydro-3-methylene-2,5-furandione, ethenylbenzene and methyl 2-methyl-2-propenoate (9CI)

MF (C8 H8 . C5 H8 O2 . C5 H4 O3 . (C4 H8 O)n C18 H40 N2 O9)x

CI PMS

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polystyrene

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

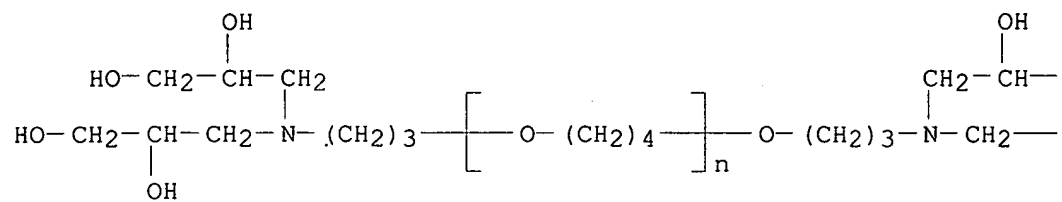
CRN 116107-89-2

CMF (C4 H8 O)n C18 H40 N2 O9

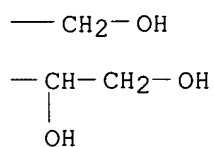
CCI PMS

Searched by: Mary Hale 308-4258 CM-1 12D16

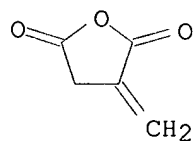
PAGE 1-A



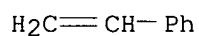
PAGE 1-B



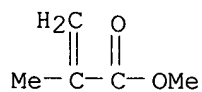
CM 2
CRN 2170-03-8
CMF C5 H4 O3



CM 3
CRN 100-42-5
CMF C8 H8



CM 4
CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:94880 Coating composition. Andrews, Adrian Ferguson; Hugh, Nicolas Saint John; Nunn, Michael John (International Paint PLC, UK). Eur. Pat. Appl. EP 259172 A2 19880309, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-307814 19870904. PRIORITY: GB 1986-21472 19860905.

AB Title compn. for coatings with good resistance to impact and abrasion comprises anhydride polymer contg. .gtoreq.2 cyclic carboxylic acid anhydride groups, and polymer with anhydride-reactive groups, such as hydroxyalkylamino, hydroxyalkoxyalkylamino, OH-substituted (poly)acryloxyalkylamino, mercaptoalkylamino, and oxazolidino, either polymer contg. .gtoreq.1 flexible chain unit. Thus, condensing 28.6 g Ph glycidyl ether with 100 g bis(3-aminopropyl)polytetramethylene glycol (mol. wt. 2100) gave a .beta.-hydroxyalkylamine functional resin, 135.0 g of which was mixed with 112.0 g itaconic anhydride-Me methacrylate-styrene copolymer in anhydride/OH group mol ratio 1:1, coated on steel plates at 20.degree., and dried for 24 h to a flexible, clear, tack-free film.

L23 ANSWER 29 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 116107-89-2 REGISTRY

CN Poly(oxy-1,4-butanediyl), .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-dihydroxypropyl)amino]propoxy]- (9CI) (CA INDEX NAME)

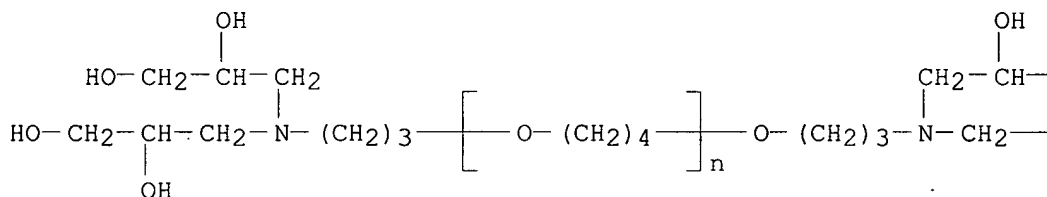
MF (C4 H8 O)n C18 H40 N2 O9

CI PMS, COM

PCT Polyether

SR CA

PAGE 1-A



PAGE 1-B

--- CH₂-OH

--- CH-CH₂-OH
|
OH

L23 ANSWER 30 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 96638-01-6 REGISTRY

CN Oxirane, methyl-, polymer with oxirane, ether with 3,3',3''-nitrilotris[1,2-propanediol] (6:1), sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Oxirane, polymer with methyloxirane, ether with 3,3',3''-nitrilotris[1,2-propanediol] (6:1), sodium salt (9CI)

MF C9 H21 N O6 . 3 (C3 H6 O . C2 H4 O)x . x Na

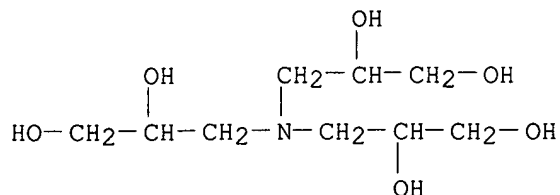
PCT Polyether, Polyether formed

LC STN Files: CA, CAPLUS

CM 1

Searched by: Mary Hale 308-4258 CM-1 12D16

CRN 57302-20-2
CMF C9 H21 N O6

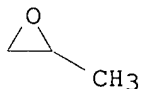


CM 2

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 3

CRN 75-56-9
CMF C3 H6 O



CM 4

CRN 75-21-8
CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:223243 Amine derivatives for pour-point depressants for fuel oils. (Nippon Oils and Fats Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 59207989 A2 19841126 Showa, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1983-81729 19830512.

AB Pour-point depressants for fuel oils are amine ethers with C8-30 alcs. with or without mixing with a polymer of .gtoreq.2 olefins, olefinic carboxylic acids, or vinyl unsatd. fatty acid. Thus, the cold-flow pour point of a light oil was reduced by 10.degree. with addn. of 200 ppm HOCH2CH2N[CH2CH2O(CH2)21Me]2 [96631-97-9].

L23 ANSWER 31 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 93357-80-3 REGISTRY

CN Oxirane, methyl-, polymer with oxirane, ether with N-(2,3-dihydroxypropyl)-2,3-dihydroxy-N,N-dimethyl-1-propanaminium (2:1), bis(dinonylphenyl) ether, chloride (9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 12D16

OTHER CA INDEX NAMES:

CN Oxirane, polymer with methyloxirane, ether with N-(2,3-dihydroxypropyl)-
2,3-dihydroxy-N,N-dimethyl-1-propanaminium (2:1), bis(dinonylphenyl)
ether, chloride (9CI)
MF C24 H42 O . 1/2 C8 H20 N O4 . (C3 H6 O . C2 H4 O)x . Cl
PCT Polyether, Polyether formed
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

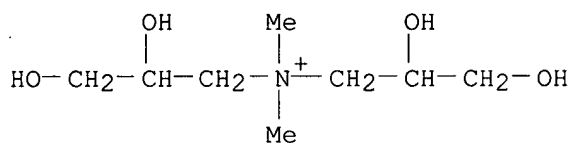
CRN 178150-31-7

CMF C24 H42 O . 1/2 C8 H20 N O4 . (C3 H6 O . C2 H4 O)x

CM 2

CRN 177966-40-4

CMF C8 H20 N O4



CM 3

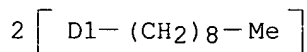
CRN 1323-65-5

CMF C24 H42 O

CCI IDS



D1-OH



CM 4

CRN 9003-11-6

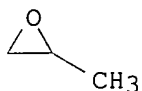
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 5

CRN 75-56-9

CMF C3 H6 O



CM 6

CRN 75-21-8
CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:232239 Surface-active quaternary ammonium compounds for treatment of textiles and cellulosic materials. Hellsten, Karl M. E.; Emanuelsson, Jan G.; Wahlen, Svante L.; Thebrin, Axel I. (Swed.). U.S. US 4476323 A 19841009, 7 pp. (English). CODEN: USXXAM. APPLICATION: US 1981-237800 19810224.

AB Alkoxylated alcs. are treated with epichlorohydrin (I) and a secondary amine to prep. compds. $RR_1N+R_2R_3 X^-$ (II) ($R, R_1 = R_4OZCH_2CH(OH)CH_2$; $R_4 = C_{12-40}$ hydrocarbyl; $Z =$ polyoxyalkylene derived from oxirane and methyloxirane); $R_2, R_3 = Me, Et,$ or hydroxyethyl; $X^- =$ an anion). Compds. II are useful for imparting antistatic properties and softness to textiles while preserving hydrophilicity, for imparting wettability to cellulose pulp, and for improving water absorptivity and softness of paper. Thus, 322.4 g 1:1 cetyl alc.-stearyl alc. mixt. was alkoxylated with 299.3 g oxirane and 378.2 g methyloxirane to give 964 g alkoxylate which (724 g) was treated with 86 g I and with 19 g Me_2NH to give an 85% yield of II ($R_4 = C_{16-18}$ alkyl; $Z =$ polyoxyalkylene with av. degree of polymn. 10.5; $R_2, R_3 = Me$; and $X^- = Cl^-$). This II was used as an antistatic agent and softener for fabrics, including polyamide fabrics.

L23 ANSWER 32 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 80297-70-7 REGISTRY

CN 1-Propanesulfonic acid, 3-[bis(2,3-dihydroxypropyl)amino]-, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, 1,2-ethanediol and 1,3-isobenzofurandione (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Ethanediol, polymer with 3-[bis(2,3-dihydroxypropyl)amino]-1-propanesulfonic acid, 2,2-bis(hydroxymethyl)-1,3-propanediol and 1,3-isobenzofurandione (9CI)

CN 1,3-Isobenzofurandione, polymer with 3-[bis(2,3-dihydroxypropyl)amino]-1-propanesulfonic acid, 2,2-bis(hydroxymethyl)-1,3-propanediol and 1,2-ethanediol (9CI)

CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)-, polymer with 3-[bis(2,3-dihydroxypropyl)amino]-1-propanesulfonic acid, 1,2-ethanediol and 1,3-isobenzofurandione (9CI)

MF (C9 H21 N O7 S . C8 H4 O3 . C5 H12 O4 . C2 H6 O2)x

CI PMS

PCT Polyamine, Polyester, Polyester formed

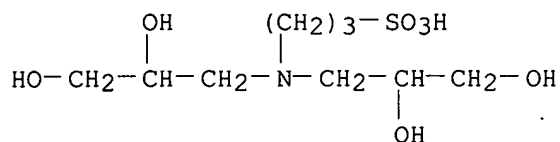
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 80297-69-4

Searched by: Mary Hale 308-4258 CM-1 12D16

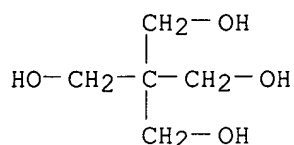
CMF C9 H21 N O7 S



CM 2

CRN 115-77-5

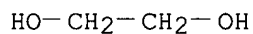
CMF C5 H12 O4



CM 3

CRN 107-21-1

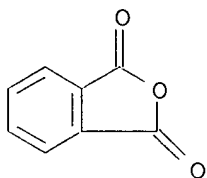
CMF C2 H6 O2



CM 4

CRN 85-44-9

CMF C8 H4 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 96:8255 Alkyd resins containing ampho-ionic groups. Mizuguchi, Ryuzo; Ishikura, Shinichi; Ishii, Kaizo (Nippon Paint Co., Ltd., Japan). Ger. Offen. DE 3043775 A1 19811029, 32 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1980-3043775 19801120. PRIORITY: JP 1980-56048 19800426.

AB Alkyd resins for coatings with improved viscosity and pigment dispersion contain ammonium groups bearing sulfoalkyl or sulfoaryl substituents. Thus, stirring linseed oil 994, pentaerythritol 183, and Pb naphthenate 15 parts 30 min at 240.degree., adding phthalic anhydride 321, (HOCH2CH2)2NCH2SO3H (I) 5.5, and xylene 45 parts, and stirring .apprx.2 h

Searched by: Mary Hale 308-4258 CM-1 12D16

at 150-240.degree. with azeotropic distn. of H2O gives an alkyd with acid no. 8.5, OH no. 50, oil length 658, mol. wt. 1800, and Gardener viscosity Z (70% xylene soln.). A ground mixt. of this resin 50, TiO2 27, CaCO3 10, Pb naphthenate 0.3, and aliph. solvent 8 parts is coated to 40-.mu. thickness (dry basis) on steel and dried at room temp. to give a film with tack free time 10 min, semicuring time 2 h, 60.degree. gloss (24 h) 93, and brightness very good, compared with 15, 3, 91, and good, resp., for a similar coating not contg. I.

L23 ANSWER 33 OF 33 REGISTRY COPYRIGHT 2001 ACS

RN 67698-48-0 REGISTRY

CN 1,2-Propanediol, 3,3',3'',3'''-(1,2-ethanedioldinitrilo)tetrakis-, polymer with 1,3-diisocyanatomethylbenzene and .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzene, 1,3-diisocyanatomethyl-, polymer with 3,3',3'',3'''-(1,2-ethanedioldinitrilo)tetrakis[1,2-propanediol] and .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)

CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxy-, polymer with 1,3-diisocyanatomethylbenzene and 3,3',3'',3'''-(1,2-ethanedioldinitrilo)tetrakis[1,2-propanediol] (9CI)

MF (C14 H32 N2 O8 . C9 H6 N2 O2 . (C3 H6 O)n (C3 H6 O)n (C3 H6 O)n C3 H8 O3)x

CI PMS

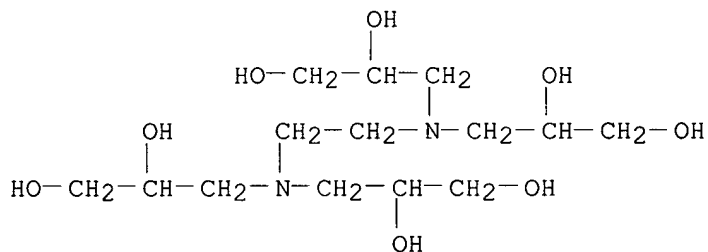
PCT Polyamine, Polyether, Polyurethane, Polyurethane formed

LC STN Files: CA, CAPLUS

CM 1

CRN 64504-51-4

CMF C14 H32 N2 O8

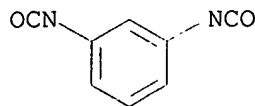


CM 2

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



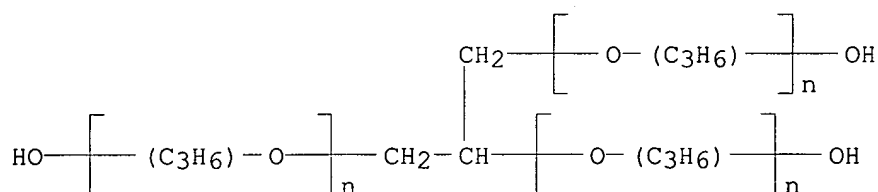
D1-Me

CM 3

CRN 25791-96-2

CMF (C3 H6 O)_n (C3 H6 O)_n (C3 H6 O)_n C3 H8 O3

CCI IDS, PMS



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 89:131205 Surface processing of poly(ethylene terephthalate) film. Polaczek, Jerzy; Luscinski, Marian; Matyaszczyk, Stefania; Stepien, Augustyn; Sekita, Witold; Sulkowski, Wieslaw; Kulawski, Jerzy; Krolikowski, Andrzej; Studnicki, Marek (Zaklady Tworzyw Sztucznych "Nitron-Erg", Pol.). Pol. PL 91803 19771215, 2 pp. (Polish). CODEN: POXXA7. APPLICATION: PL 1973-161209 19730310.

AB The title film was coated with a polyurethane lacquer. Thus, glycerol, propylene oxide ether 4, N,N,N',N'-tetrakis(dihydroxypropyl)ethylenediamine 0.25, and TDI 3.85 g were dissolved in 50 mL 1:1 AcOEt-PhMe, the soln. was applied to a poly(ethylene terephthalate) [25038-59-9] film, and the solvent was evapd. at room temp.

=> dis his

(FILE 'HOME' ENTERED AT 15:03:43 ON 08 NOV 2001)

FILE 'REGISTRY' ENTERED AT 15:04:43 ON 08 NOV 2001

L1 STR
L2 SCR 2043
L3 0 S L1 AND L2
L4 0 S L1 AND L2 FUL
L5 STR L1
L6 2 S L5 AND L2
L7 63 S L5 AND L2 FUL

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE' ENTERED AT 15:10:06 ON 08 NOV 2001

L8 7 FILE CAPLUS
L9 0 FILE BIOSIS
L10 0 FILE EMBASE

Searched by: Mary Hale 308-4258 CM-1 12D16

L11 0 FILE MEDLINE
TOTAL FOR ALL FILES
L12 7 S L7 AND (OBES? OR OVERWEIGHT OR WEIGHT)

FILE 'REGISTRY' ENTERED AT 15:14:01 ON 08 NOV 2001

L13 STR
L14 0 S L13 AND L2
L15 0 S L13 AND L2 FUL
L16 STR L13
L17 0 S L16 AND L2
L18 11 S L16 AND L2 FUL
L19 STR
L20 STR L19
L21 STR
L22 1 S (L21 OR L20 OR L19) AND L2
L23 33 S (L21 OR L20 OR L19) AND L2 FUL

=> fil caplus,medlin,biosis,embase;s (l23 or l18 or l7) and (obes? or ?weight? or
hypertriglyceridem? or steatorrh? or diet? fat)
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|---------------------|------------------|
| FULL ESTIMATED COST | 683.47 | 994.46 |

| | SINCE FILE ENTRY | TOTAL SESSION |
|--|---------------------|------------------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | | |
| CA SUBSCRIBER PRICE | -19.60 | -23.72 |

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FILE 'MEDLINE' ENTERED AT 15:23:57 ON 08 NOV 2001

FILE 'BIOSIS' ENTERED AT 15:23:57 ON 08 NOV 2001
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L24 14 FILE CAPLUS
L25 0 FILE MEDLINE
L26 0 FILE BIOSIS
L27 0 FILE EMBASE

TOTAL FOR ALL FILES
L28 14 (L23 OR L18 OR L7) AND (OBES? OR ?WEIGHT? OR HYPERTRIGLYCERIDEM?
OR STEATORRH? OR DIET? FAT)

=> d 1-14 cbib abs hitstr

L28 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2001 ACS
2001:468203 Document No. 135:66201 Conjugates targeted to the interleukin-2
receptor. Prakash, Ramesh K.; Clemens, Christopher M. (Watson
Laboratories, Inc., USA). U.S. US 6251866 B1 20010626, 22 pp.,
Cont.-in-part of U.S. Ser. No. 914,042, abandoned. (English). CODEN:
USXXAM. APPLICATION: US 1998-128572 19980804. PRIORITY: US 1997-914042
19970805.

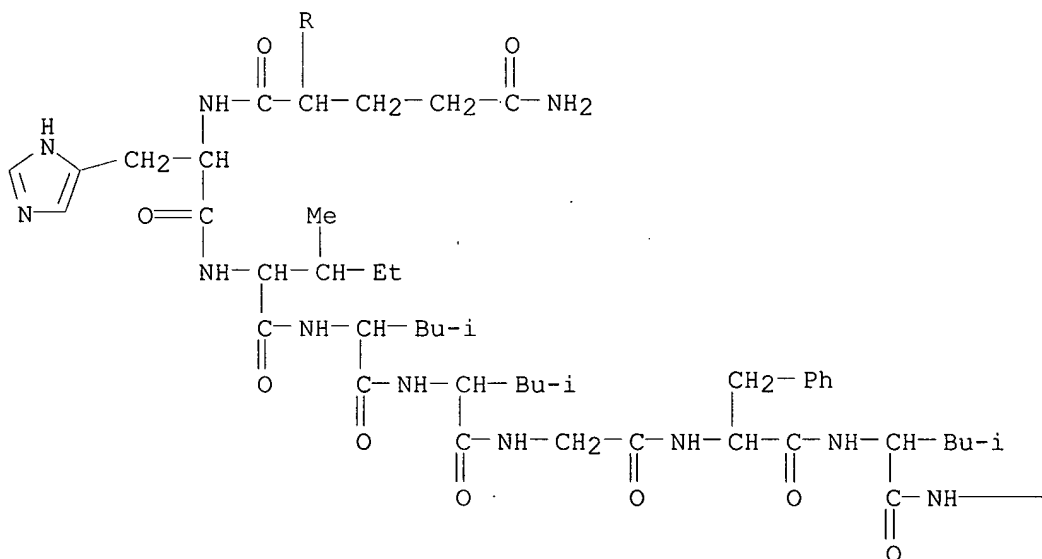
AB A compn. for intracellular delivery of a chem. agent into an
interleukin-2-receptor-bearing cell, e.g. an activated T cell, includes a
chem. agent and at least one copy of an interleukin-2-receptor-binding and

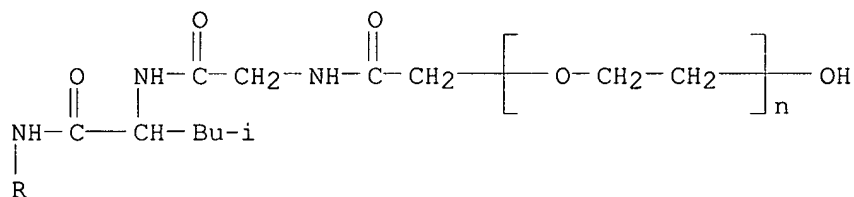
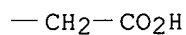
Searched by: Mary Hale 308-4258 CM-1 12D16

endocytosis-inducing ligand coupled to a water sol. polymer. The ligand binds to a receptor on the interleukin-2-receptor-bearing cell and elicits endocytosis of the compn. The compn. also preferably includes a spacer for coupling the chem. agent and the ligand to the polymer. Chem. agents can include cytotoxins, transforming nucleic acids, gene regulators, labels, antigens, drugs, and the like. A preferred water sol. polymer is a polyalkylene oxide, such as polyethylene glycol and polyethylene oxide, and activated derivs. thereof. The compn. can further comprise a carrier such as another water sol. polymer, liposome, or particulate. Methods of using these compns. for delivering a chem. agent in vivo or in vitro are also disclosed. A method of detecting a disease, such as T-cell lymphocytic leukemia, T-cell acute lymphoblastic leukemia, peripheral T-cell lymphoma, Hodgkin's disease, or non-Hodgkin's lymphoma, assocd. with elevated levels of sol. IL-2 receptor is also disclosed.

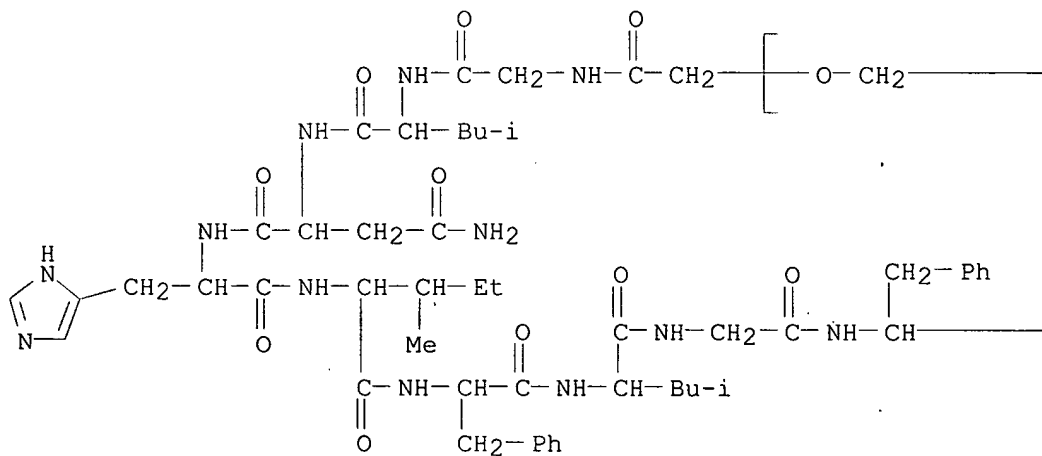
- IT 345904-21-4DP, reaction product with adriamycin
 345904-23-6DP, reaction product with adriamycin
 345904-24-7DP, reaction product with adriamycin
 345904-25-8DP, reaction product with adriamycin
 345904-26-9DP, reaction product with adriamycin
 RL: BAC (Biological activity or effector, except adverse); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (peptide conjugates targeted to the interleukin-2 receptor)
- RN 345904-21-4 CAPLUS
- CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with hydroxyacetylglucyl-L-leucyl-L-glutamyl-L-histidyl-L-isoleucyl-L-leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)

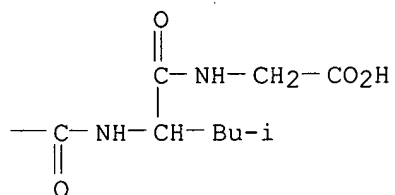
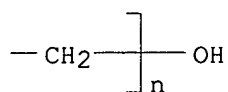
PAGE 1-A





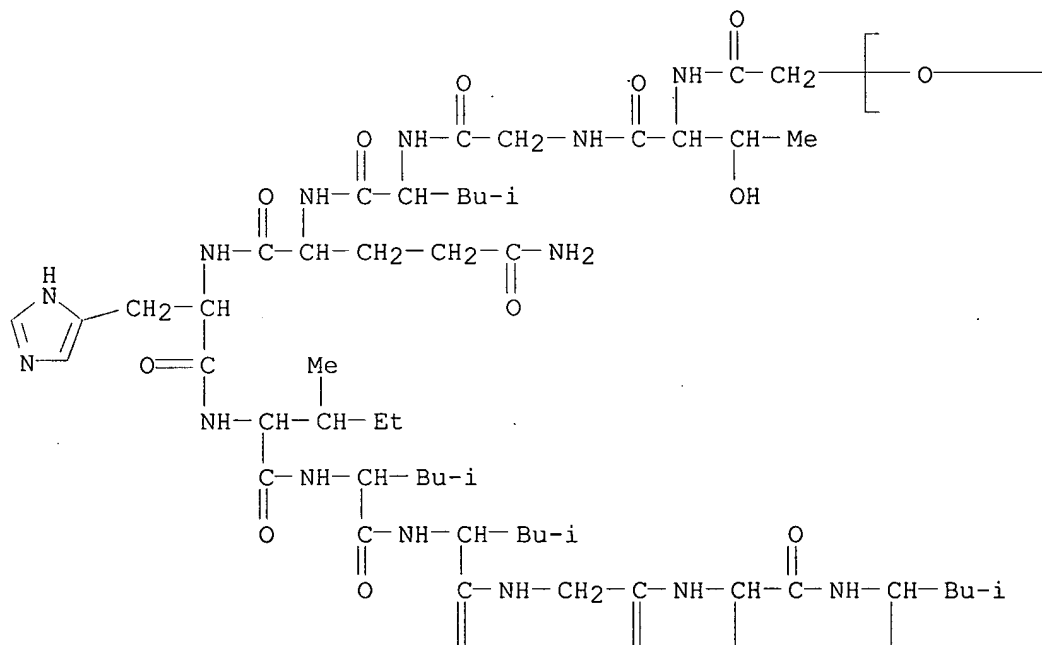
RN 345904-23-6 CAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with hydroxyacetylglucyl-L-leucyl-L-asparaginy-L-histidyl-L-isoleucyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)

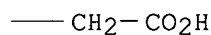
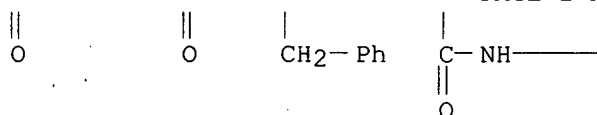
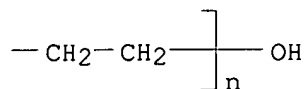




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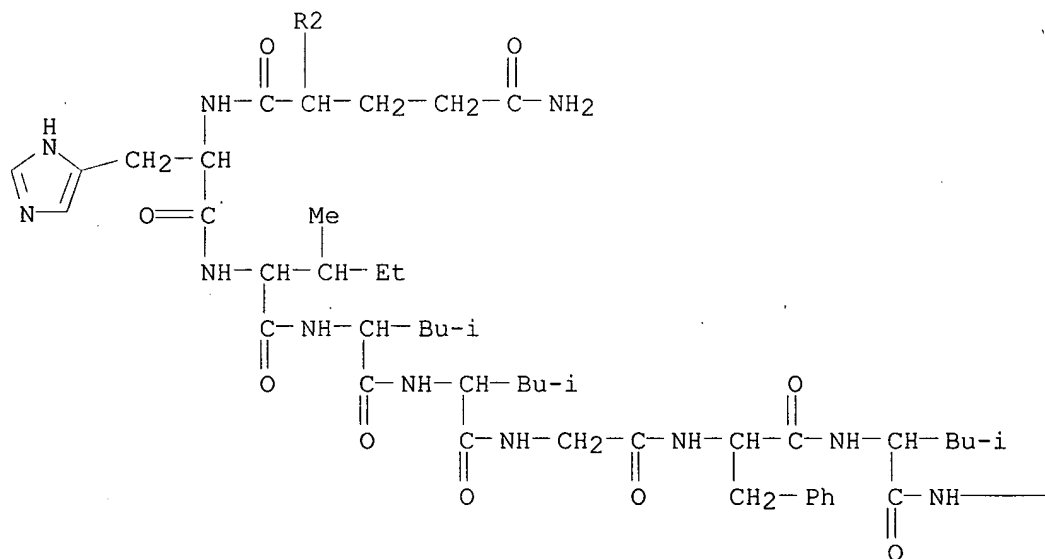
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-ether with
hydroxyacetyl-L-threonylglycyl-L-leucyl-L-glutaminyl-L-histidyl-L-
isoleucyl-L-leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI)
(CA INDEX NAME)

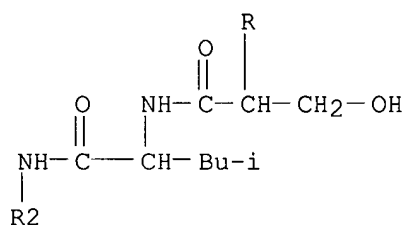
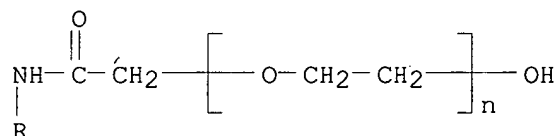
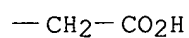




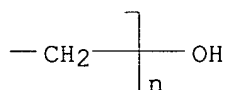
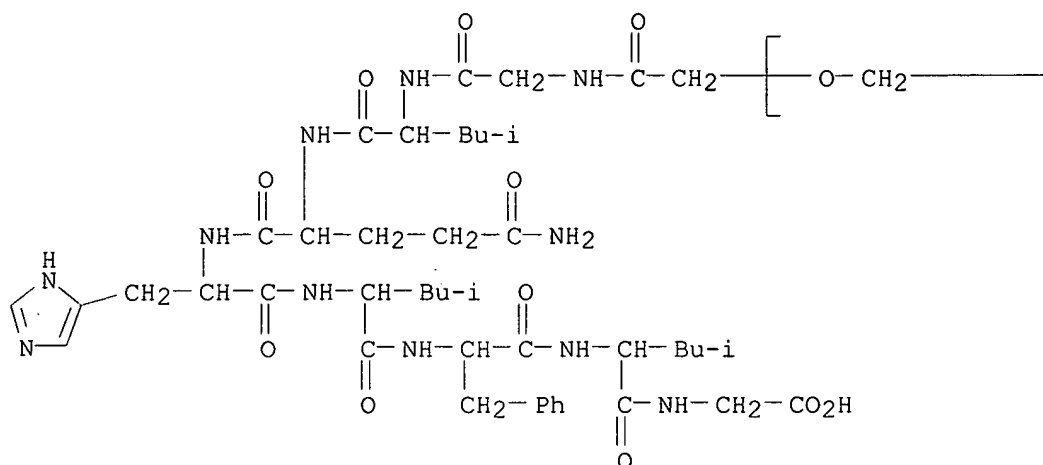
RN 345904-25-8 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-ether with hydroxyacetyl-L-seryl-L-leucyl-L-glutaminyl-L-histidyl-L-isoleucyl-L-leucyl-L-leucylglycyl-L-phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)





RN 345904-26-9 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, monoether with
 hydroxyacetylglycyl-L-leucyl-L-glutaminyl-L-histidyl-L-leucyl-L-
 phenylalanyl-L-leucylglycine (9CI) (CA INDEX NAME)



L28 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2001 ACS

2001:63835 Document No. 134:131954 Fat-binding polymers for use with lipase inhibitors. Jozefiak, Thomas Henry; Mandeville, W. Harry, III; Holmes-Farley, Stephen Randall; Huval, Chad Cori; Garigapati, Venkata R.; Shackett, Keith K.; Concagh, Danny (Geltex Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2001005408 A1 20010125, 104 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-US15958 19990714.

AB Polymers having ether and(or) N-contg. side chains are manufd. for use in binding fat for treatment of **obesity**. A typical polymer was manufd. by radical polymn. of N-decylacrylamide 2.83, 3-acrylamidopropyltrimethylammonium chloride 18.45, and acrylamide 13.33 g.

IT 321904-08-9P 321904-11-4P 321904-14-7P

RL: IMF (Industrial manufacture); PREP (Preparation)

(fat-binding polymers for use with lipase inhibitors)

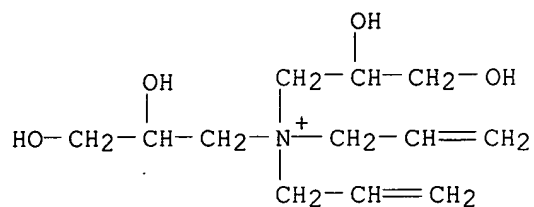
RN 321904-08-9 CAPLUS

CN 2-Propen-1-aminium, N,N-bis(2,3-dihydroxypropyl)-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 321904-07-8

CMF C12 H24 N O4 . C1



● Cl⁻

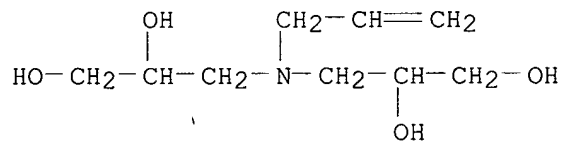
RN 321904-11-4 CAPLUS
 CN 1,2-Propanediol, 3,3'-(2-propenylimino)bis-, homopolymer, hydrochloride
 (9CI) (CA INDEX NAME)

CM 1

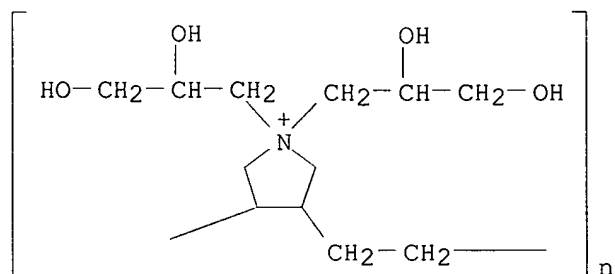
CRN 321904-10-3
 CMF (C9 H19 N O4)x
 CCI PMS

CM 2

CRN 321904-09-0
 CMF C9 H19 N O4



RN 321904-14-7 CAPLUS
 CN Poly[[1,1-bis(2,3-dihydroxypropyl)pyrrolidinium-3,4-diyl]-1,2-ethanediyl
 chloride] (9CI) (CA INDEX NAME)



● Cl⁻

L28 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2001 ACS
 2000:513736 Document No. 133:140235 Preparation of ionic molecular

Searched by: Mary Hale 308-4258 CM-1 12D16

conjugates of biodegradable polyesters and bioactive peptides. Shalaby, Shalaby W.; Jackson, Steven A.; Moreau, Jacques-Pierre (Biomeasure Incorporated, USA; Poly-Med). PCT Int. Appl. WO 2000043435 A1 20000727, 46 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH; CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US1753 20000126. PRIORITY: US 1999-237405 19990126.

AB A sustained-release pharmaceutical compn. includes a polyester contg. a free COOH group ionically conjugated with a bioactive peptide comprising at least 1 effective ionogenic amine, wherein at least 50% by wt . of the peptide present in the compn. is ionically conjugated to the polyester. Thus, a rod delivery system was obtained by synthesizing the citric acid ester of .epsilon.-caprolactone-glycolide copolymer followed by treatment with the peptide, LHRH acetate. The ionic conjugate and the polymer were melted and the melted materials was extruded into rods.

IT **286411-58-3P**, Glycolic acid-L-lactide-malic acid copolymer salt with D-Trp6[LHRH] **286427-80-3P**, Glycolic acid-L-lactic acid-malic acid copolymer salt with D-Trp6[LHRH] **286427-84-7P**, .epsilon.-Caprolactone-Glycolide copolymer ester with citric acid salt with LHRH acetate

RL: DEV (Device component use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of ionic mol. conjugates of biodegradable polyesters and bioactive peptides)

RN 286411-58-3 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-D-tryptophan-, compd. with (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione polymer with hydroxyacetic acid and hydroxybutanedioic acid (9CI) (CA INDEX NAME)

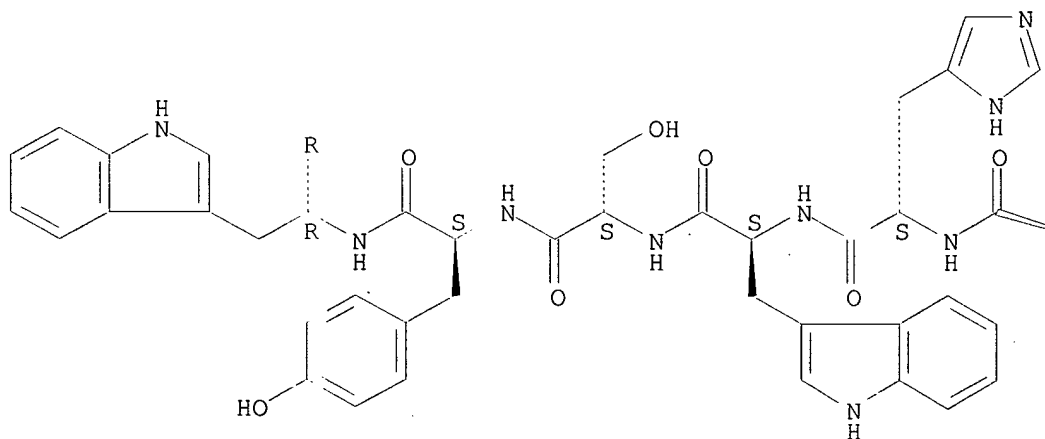
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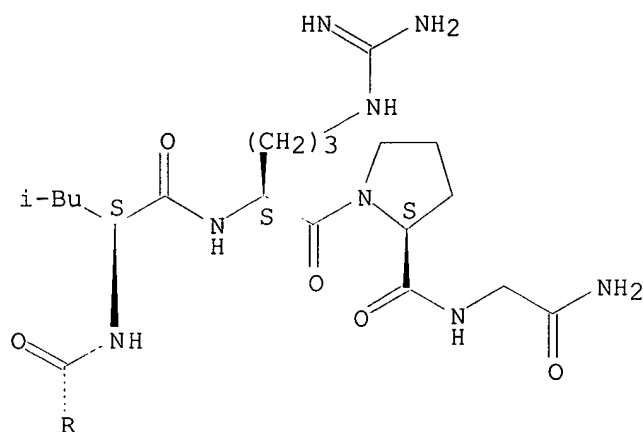
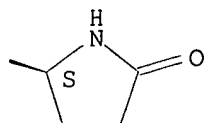
CRN 57773-63-4

CMF C64 H82 N18 O13

Absolute stereochemistry. Rotation (-).

PAGE 1-A



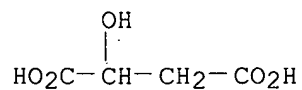


CM 2

CRN 158054-06-9
CMF (C6 H8 O4 . C4 H6 O5 . C2 H4 O3) x
CCI PMS

CM 3

CRN 6915-15-7
CMF C4 H6 O5

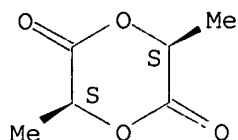


CM 4

CRN 4511-42-6
CMF C6 H8 O4
CDES 1:3S2:CIS

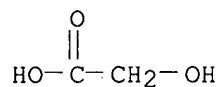
Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16



CM 5

CRN 79-14-1
CMF C2 H4 O3



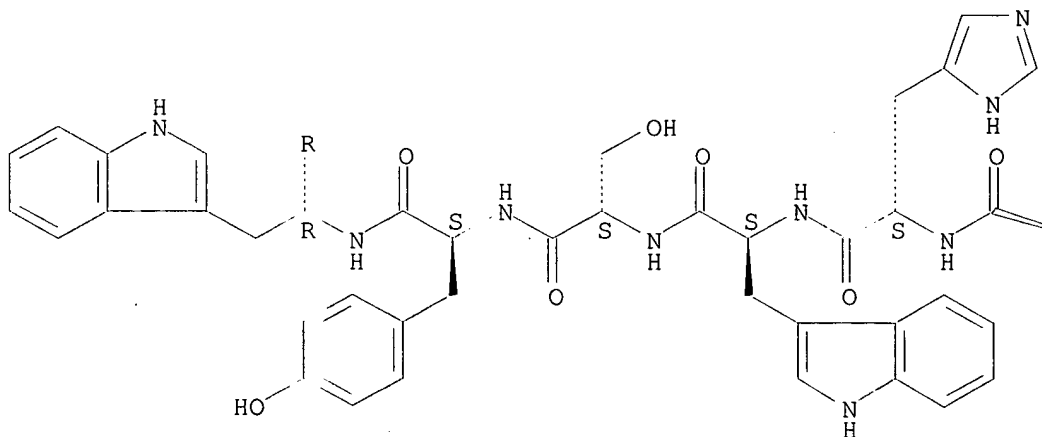
RN 286427-80-3 CAPLUS
CN Luteinizing hormone-releasing factor (swine), 6-D-tryptophan-, compd. with
hydroxyacetic acid polymer with (2S)-2-hydroxypropanoic acid
hydroxybutanedioate (9CI) (CA INDEX NAME)

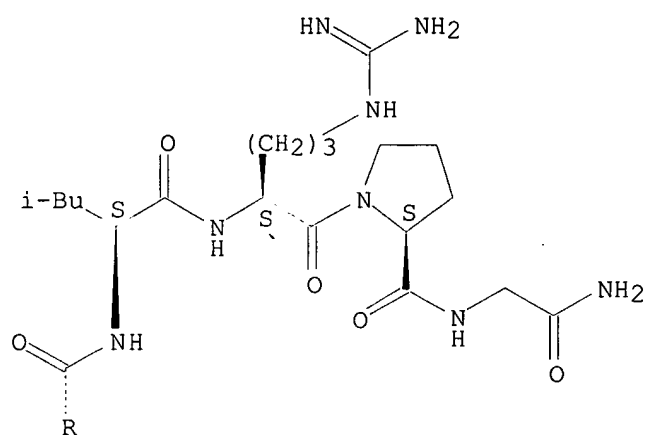
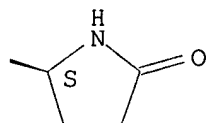
CM 1

CRN 57773-63-4
CMF C64 H82 N18 O13

Absolute stereochemistry. Rotation (-).

PAGE 1-A





CM 2

CRN 286427-79-0

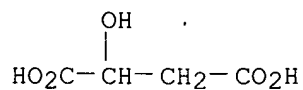
CMF C4 H6 O5 . x (C3 H6 O3 . C2 H4 O3) x

CDES 8:GD

CM 3

CRN 6915-15-7

CMF C4 H6 O5



CM 4

CRN 54512-07-1

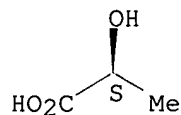
CMF (C3 H6 O3 . C2 H4 O3) x

CCI PMS

CM 5

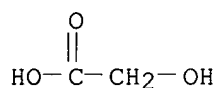
CRN 79-33-4
CMF C3 H6 O3

Absolute stereochemistry. Rotation (+).



CM 6

CRN 79-14-1
CMF C2 H4 O3



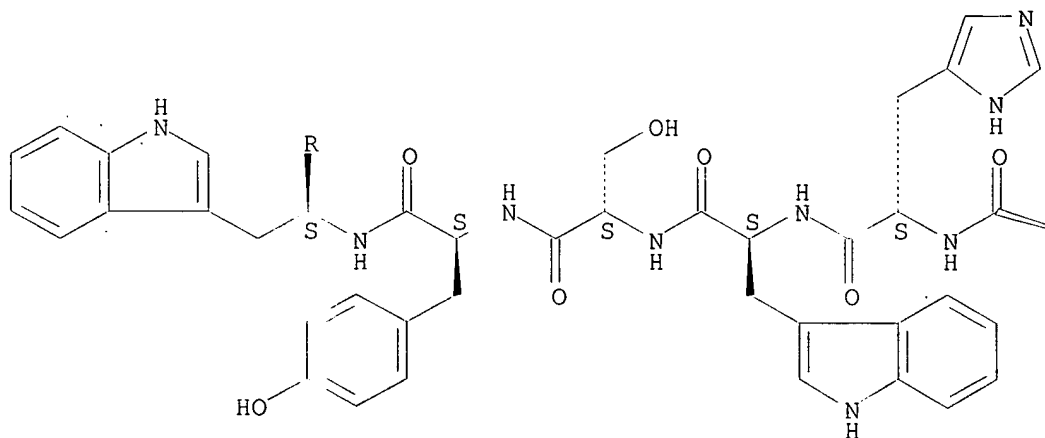
RN 286427-84-7 CAPLUS
CN Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with 1,4-dioxane-2,5-dione polymer with 2-oxepanone 2-hydroxy-1,2,3-propanetricarboxylate (9CI) (CA INDEX NAME)

CM 1

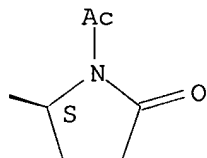
CRN 286427-83-6
CMF C66 H84 N18 O14

Absolute stereochemistry.

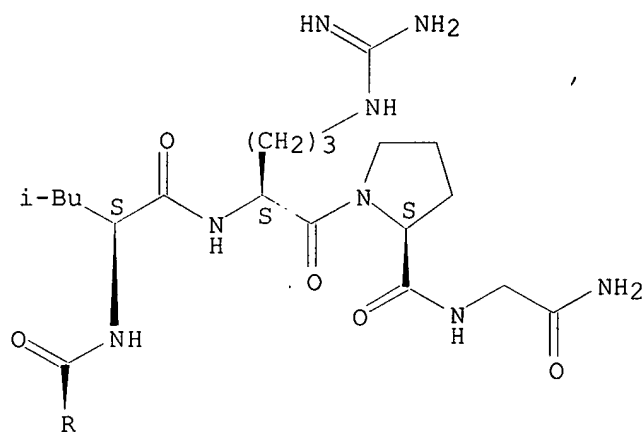
PAGE 1-A



PAGE 1-B



PAGE 2-A

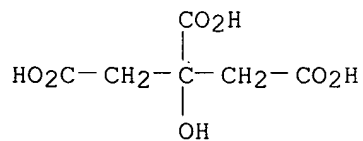


CM 2

CRN 286427-82-5
CMF (C6 H10 O2 . C4 H4 O4)x . x C6 H8 O7
CDES 8:GD

CM 3

CRN 77-92-9
CMF C6 H8 O7



CM 4

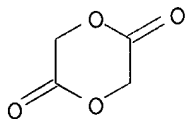
CRN 41706-81-4
CMF (C6 H10 O2 . C4 H4 O4)x
CCI PMS

Searched by: Mary Hale 308-4258 CM-1 12D16

CM 5

CRN 502-97-6

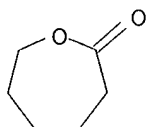
CMF C4 H4 O4



CM 6

CRN 502-44-3

CMF C6 H10 O2



IT **286427-86-9P**, .epsilon.-Caprolactone-Trimethylene carbonate
copolymer ester with tartaric acid salt with LHRH acetate
286427-88-1P, .epsilon.-Caprolactone-glycolide copolymer ester
with tartaric acid salt with LHRH acetate
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of ionic mol. conjugates of biodegradable polyesters and
bioactive peptides)
RN 286427-86-9 CAPLUS
CN Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-
tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with
1,3-dioxan-2-one polymer with 2-oxepanone (2R,3R)-2,3-
dihydroxybutanedioate (9CI) (CA INDEX NAME)

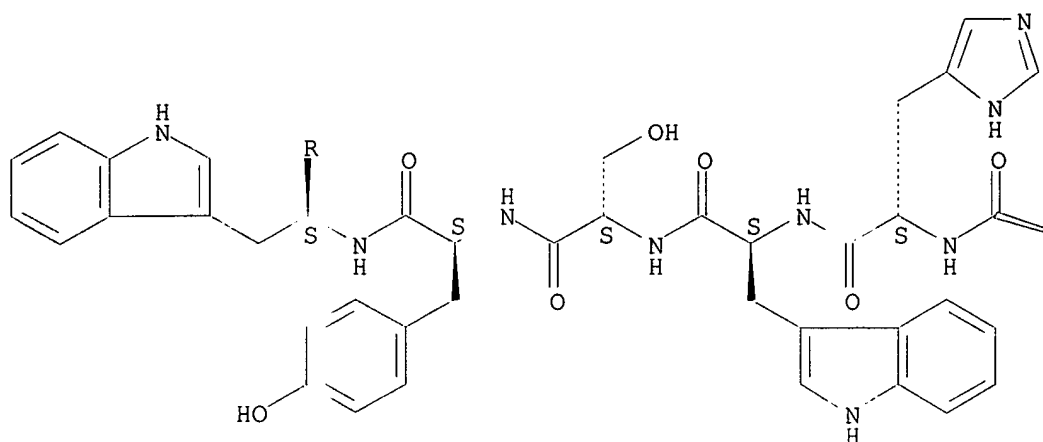
CM 1

CRN 286427-83-6

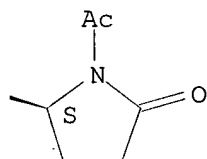
CMF C66 H84 N18 O14

Absolute stereochemistry.

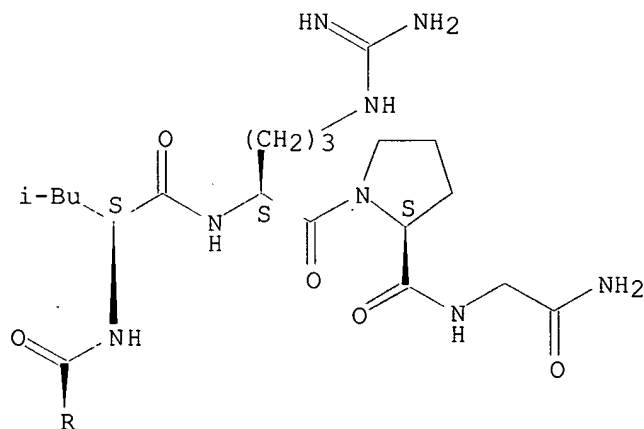
PAGE 1-A



PAGE 1-B



PAGE 2-A



CM 2

CRN 286427-85-8

CMF (C6 H10 O2 . C4 H6 O3)x . x C4 H6 O6

Searched by: Mary Hale 308-4258 CM-1 12D16

CDES 8:GD

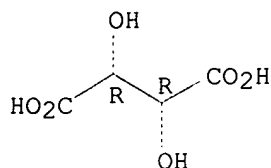
CM 3

CRN 87-69-4

CMF C4 H6 O6

CDES 1:R2:R*,R*

Absolute stereochemistry.



CM 4

CRN 116828-94-5

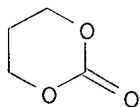
CMF (C6 H10 O2 . C4 H6 O3)x

CCI PMS

CM 5

CRN 2453-03-4

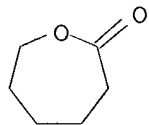
CMF C4 H6 O3



CM 6

CRN 502-44-3

CMF C6 H10 O2



RN 286427-88-1 CAPLUS

CN Glycinamide, 1-acetyl-5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-L-tryptophyl-L-leucyl-L-arginyl-L-prolyl-, compd. with 1,4-dioxane-2,5-dione polymer with 2-oxepanone (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)

CM 1

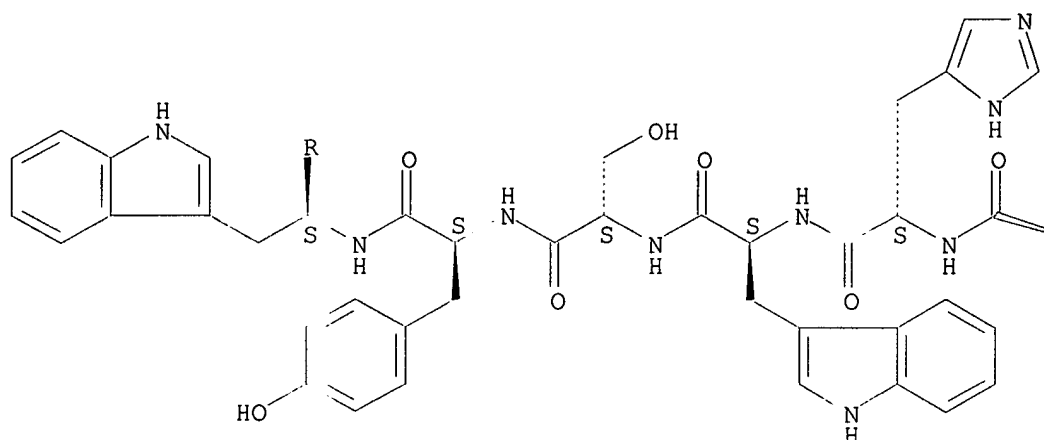
CRN 286427-83-6

CMF C66 H84 N18 O14

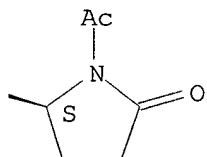
Searched by: Mary Hale 308-4258 CM-1 12D16

Absolute stereochemistry.

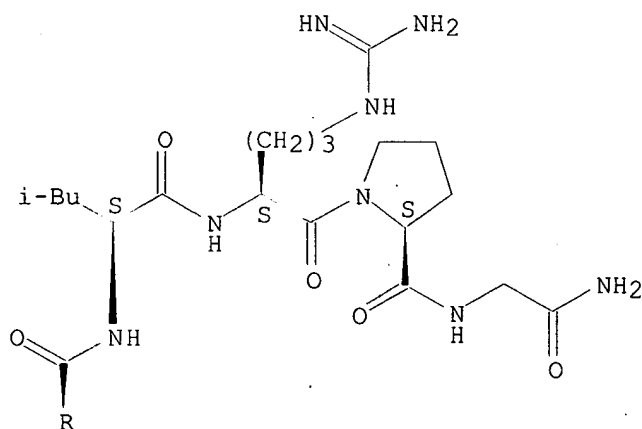
PAGE 1-A



PAGE 1-B



PAGE 2-A



CM 2

CRN 286427-87-0

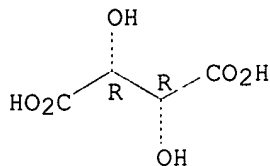
Searched by: Mary Hale 308-4258 CM-1 12D16

CMF (C6 H10 O2 . C4 H4 O4)x . x C4 H6 O6
CDES 8:GD

CM 3

CRN 87-69-4
CMF C4 H6 O6
CDES 1:R2:R*,R*

Absolute stereochemistry.

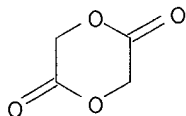


CM 4

CRN 41706-81-4
CMF (C6 H10 O2 . C4 H4 O4)x
CCI PMS

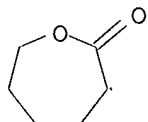
CM 5

CRN 502-97-6
CMF C4 H4 O4



CM 6

CRN 502-44-3
CMF C6 H10 O2



L28 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2001 ACS
2000:441848 Document No. 133:74520 Method for producing highly branched glycidol-based polyols. Sunder, Alexander; Mulhaupt, Rolf (Bayer Aktiengesellschaft, Germany). PCT Int. Appl. WO 2000037532 A2 20000629, 13 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,

Searched by: Mary Hale 308-4258 CM-1 12D16

KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (German). CODEN: PIXXD2. APPLICATION: WO 1999-EP9773 19991210. PRIORITY: DE 1998-19859300 19981222; DE 1999-19947631 19991004.

AB Highly branched polyols with d.p. 1-300 and polydispersity <1.7, in which 10-33% of the monomer units are branch points, are obtained by (co)polymerization of glycidol in the presence of an active-H initiator with basic catalysis. Glycidol is added as a dil. soln., and the solvent used for the diln. is continuously removed by distn. The resulting polyols are colorless and contain the initiator only as a core unit. Thus, 1.2 g trimethylolpropane was mixed with 0.7 mL 25% KOMe in MeOH at 100.degree., the MeOH was distilled, and the product was taken up in 15 mL diglyme. A soln. of 34 g glycidol in 100 mL THF was added to the diglyme soln. at 140.degree. at the rate of 5 mL/h with continuous distn. of THF to give a viscous liq. product, after neutralization with Amberlite IR 120, having mol. wt. 3700 and polydispersity 1.15, in which 26% of the monomer units were branched.

IT **278798-81-5P**, Glycidol homopolymer, ether with 3,3'-(octadecylimino)bis(1,2-propanediol)
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (method for producing highly branched glycidol-based polyols)

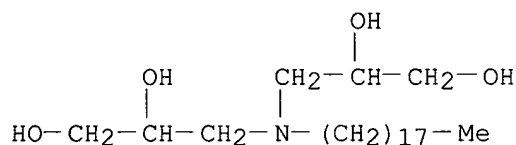
RN 278798-81-5 CAPLUS

CN Oxiranemethanol, homopolymer, ether with 3,3'-(octadecylimino)bis[1,2-propanediol] (9CI) (CA INDEX NAME)

CM 1

CRN 60659-43-0

CMF C24 H51 N O4



CM 2

CRN 25722-70-7

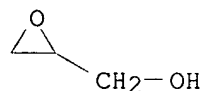
CMF (C3 H6 O2)x

CCI PMS

CM 3

CRN 556-52-5

CMF C3 H6 O2



L28 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2001 ACS

2000:81502 Document No. 132:223272 Evaluation of the network parameter in aliphatic poly(urethane dimethacrylate)s by dynamic thermal analysis. Barszczewska-Rybarek, I.; Gibas, M.; Kurcok, M. (Department of Physical Chemistry and Technology of Polymers, Silesian Technical University,

Searched by: Mary Hale 308-4258 CM-1 12D16

Gliwice, 44-100, Pol.). Polymer, 41(9), 3129-3135 (English) 2000. CODEN: POLMAG. ISSN: 0032-3861. Publisher: Elsevier Science Ltd..

AB The decarbamates obtained from monomethacrylates of oligoethylene glycols and aliph. diisocyanates were polymd. free radically to form crosslinked polymers consisting of primary chains, crosslinks and pendant side chains bearing unreacted methacrylate groups. The polymers were examd. by dynamic mech. thermal anal. (DMTA) to yield values of glass transition temp. and storage modulus. The latter enabled the network parameters for individual polymers to be evaluated. These have been found to be low when compared with mol. wts. of the monomers and can be attributed to intermol. interactions between the pendant chains and the crosslinks involving urethane linkages. This finding is supported by the ¹H NMR expts. on monomers in soln.

IT 261508-22-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and evaluation of network parameter in aliph. poly(urethane dimethacrylate)s by dynamic thermal anal.)

RN 261508-22-9 CAPLUS

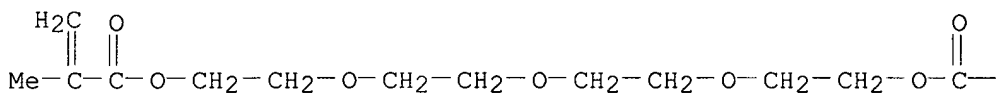
CN 11,14,17,20,23-Pentaoxa-2,9-diazahexacos-25-enoic acid, 25-methyl-10,24-dioxo-, 14-methyl-13-oxo-3,6,9,12-tetraoxapentadec-14-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

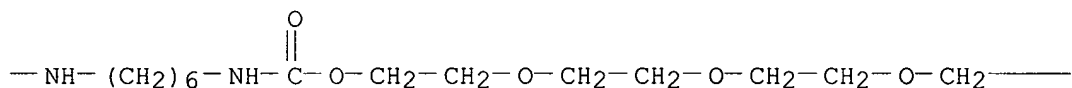
CRN 261508-13-8

CMF C32 H56 N2 O14

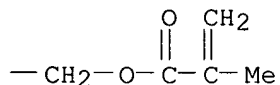
PAGE 1-A



PAGE 1-B



PAGE 1-C



L28 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2001 ACS

1997:127114 Document No. 126:118183 Polymerization of Unprotected Synthetic Peptides: A View toward Synthetic Peptide Vaccines. O'Brien-Simpson, Neil M.; Ede, Nicholas J.; Brown, Lorena E.; Swan, John; Jackson, David C. (Cooperative Research Centre for Vaccine Technology, University of Melbourne, Parkville, 3052, Australia). J. Am. Chem. Soc., 119(6), 1183-1188 (English) 1997. CODEN: JACSAT. ISSN: 0002-7863. Publisher: American Chemical Society.

AB A generic method is reported for the assembly of multi-peptide polymers in which peptides are synthesized in the solid phase, the N-terminal residue

acryloylated, and the derivatized peptides cleaved, purified and finally polymd. by free radical induced polymn. The high mol. wt. polymers generated in this way have individual peptides pendant from a backbone support. Incorporation of 6-aminohexanoyl or other residue(s) at the N-terminus of the peptide prior to acryloylation allows the peptide to be distanced from the polymer backbone and incorporation of acryloylated reagents into the polymn. mixt. also permits distancing of pendant peptides along the length of the backbone support. The polymn. process results in highly antigenic artificial proteins as measured by ELISA. Because this approach allows the incorporation of the same or combinations of different purified peptides into polymers, it lends itself to the assembly of potential vaccine candidates contg. epitopes from single or multiple pathogens into a single covalent structure.

IT **186085-54-1P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and polymn. of acryloyl peptides as synthetic peptide vaccines)

RN 186085-54-1 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 1-[N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-seryl-L-glutamine]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

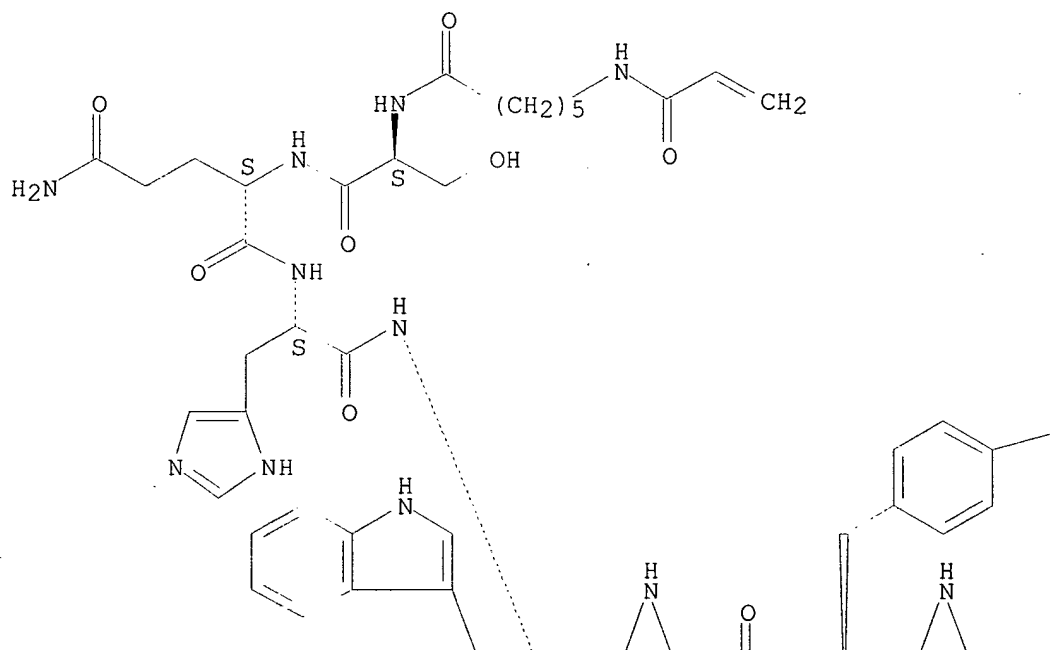
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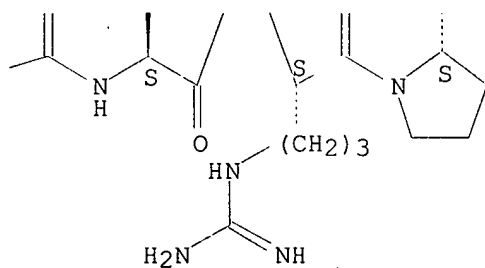
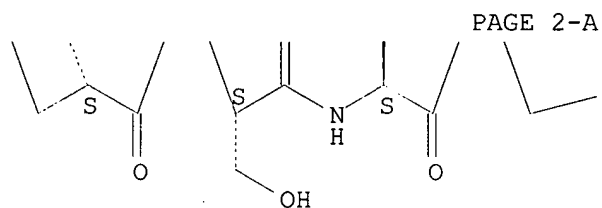
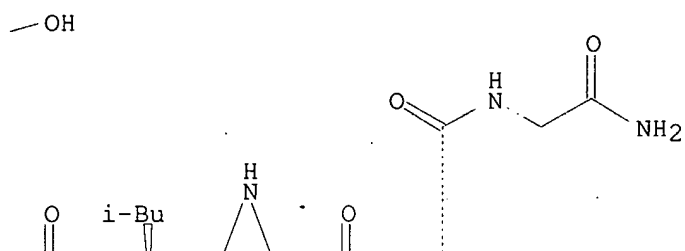
CRN 186085-38-1

CMF C67 H96 N20 O17

Absolute stereochemistry.

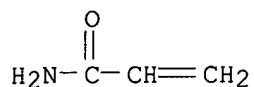
PAGE 1-A





CM 2

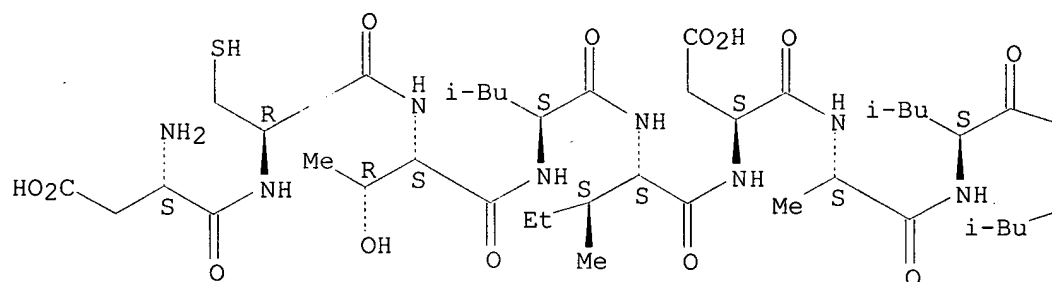
CRN 79-06-1
CMF C3 H5 N O



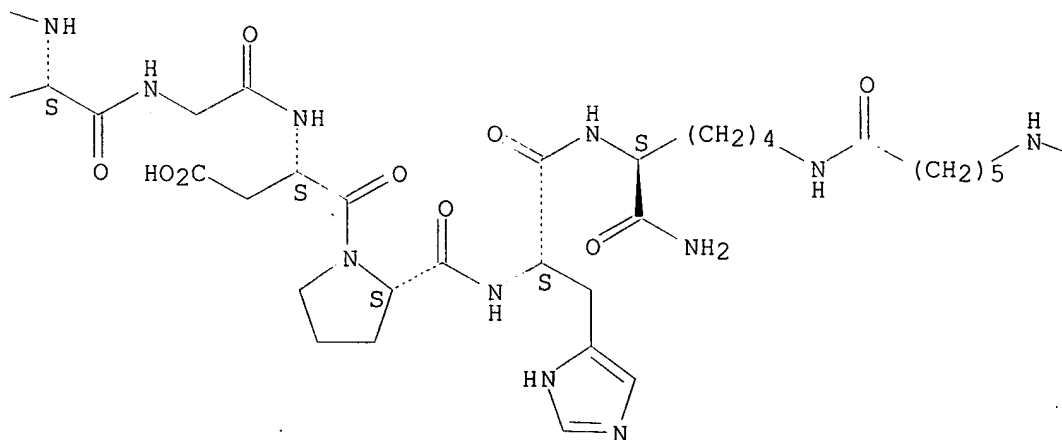
IT 186085-52-9P 186085-57-4P 186085-69-8P
 186085-70-1P 186085-72-3P 186085-77-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and polymn. of acryloyl peptides as synthetic peptide vaccines)
 RN 186085-52-9 CAPLUS
 CN L-Lysinamide, L-.alpha.-aspartyl-L-cysteinyl-L-threonyl-L-leucyl-L-
 isoleucyl-L-.alpha.-aspartyl-L-alanyl-L-leucyl-L-leucylglycyl-L-.alpha.-
 aspartyl-L-prolyl-L-histidyl-N6-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-,
 polymer with 2-propenamide (9CI) (CA INDEX NAME)
 CM 1
 CRN 186085-35-8
 CMF C74 H121 N19 O23 S

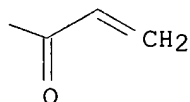
Absolute stereochemistry.

PAGE 1-A



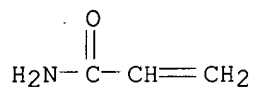
PAGE 1-B





CM 2

CRN 79-06-1
CMF C3 H5 N O

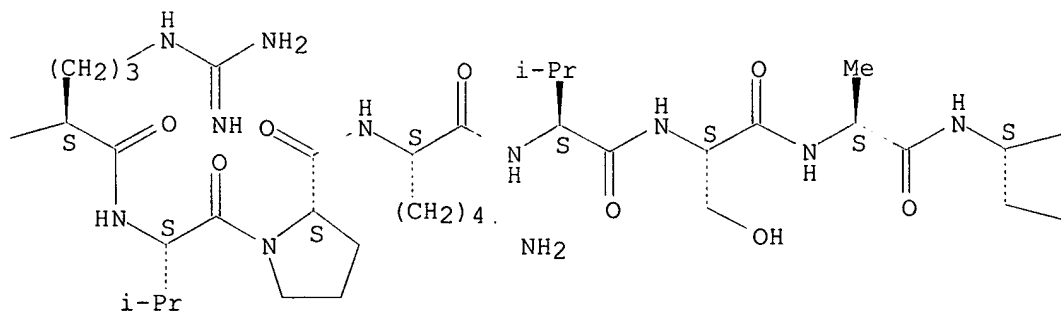
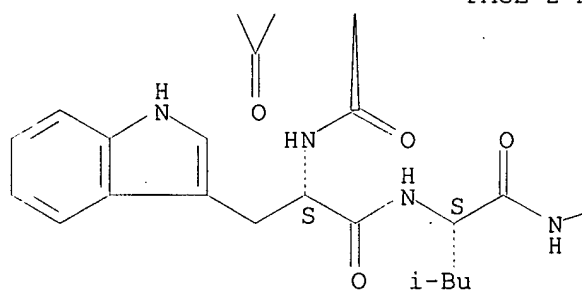
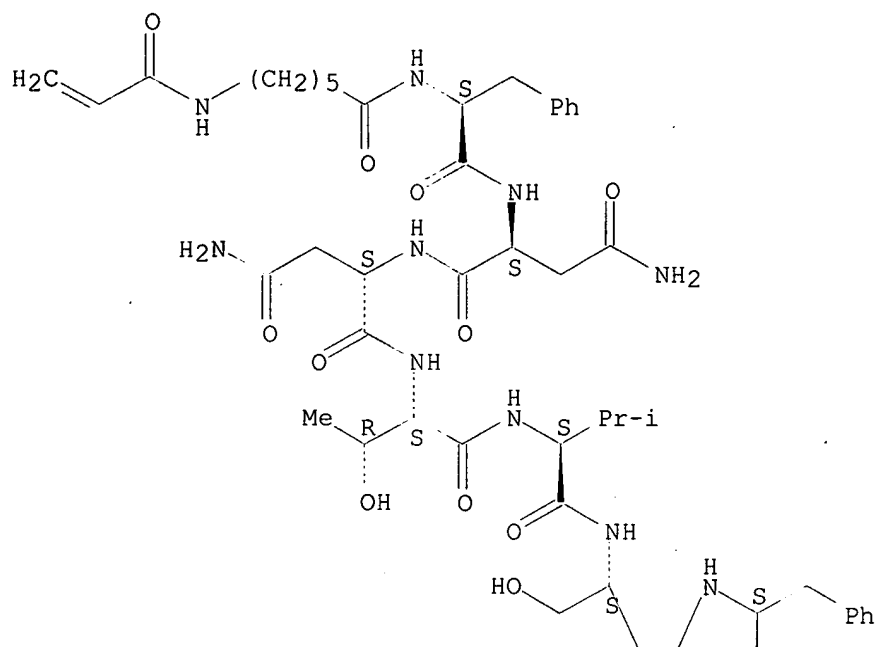


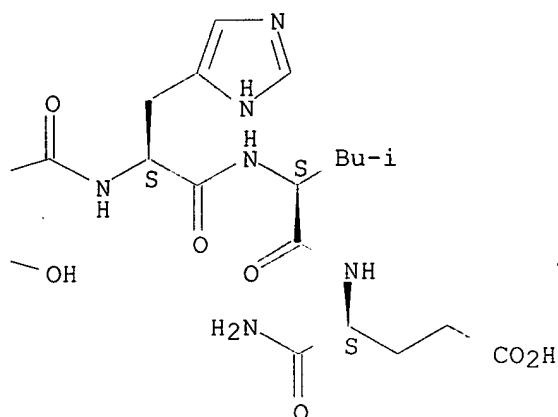
RN 186085-57-4 CAPLUS
CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyll-L-asparaginyll-L-threonyll-L-valyll-L-seryll-L-phenylalanyl-L-tryptophyll-L-leucyll-L-arginyll-L-valyll-L-prolyll-L-lysyl-L-valyll-L-seryll-L-alanyl-L-seryll-L-histidyll-L-leucyll-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 186085-41-6
CMF C117 H177 N31 O30

Absolute stereochemistry.

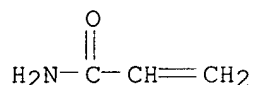




CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 186085-69-8 CAPLUS

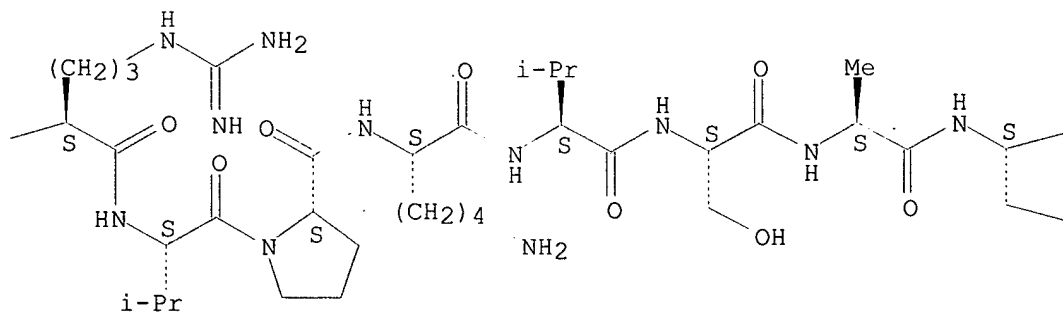
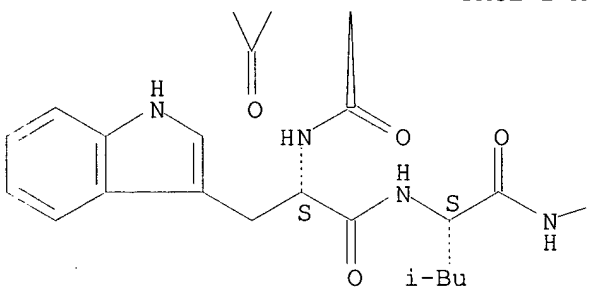
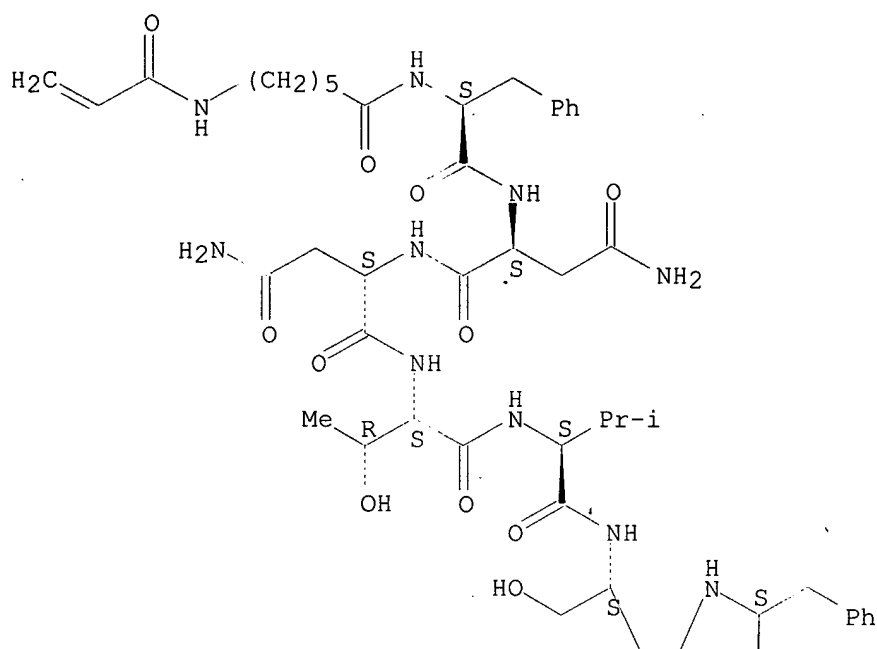
CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginy-L-asparaginy-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-seryl-L-glutaminyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosylglycyl-L-leucyl-L-arginyl-L-prolylglycinamide and 2-propenamide (9CI) (CA INDEX NAME)

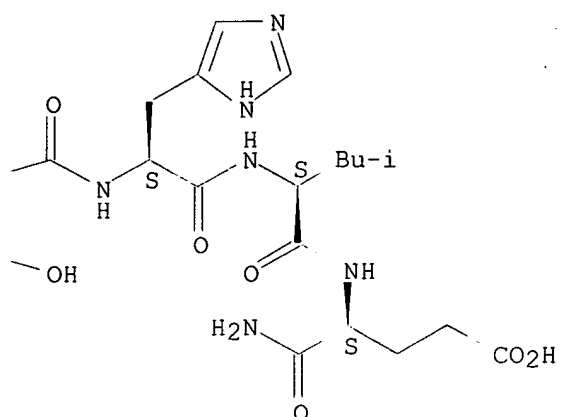
CM 1

CRN 186085-41-6

CMF C117 H177 N31 O30

Absolute stereochemistry.



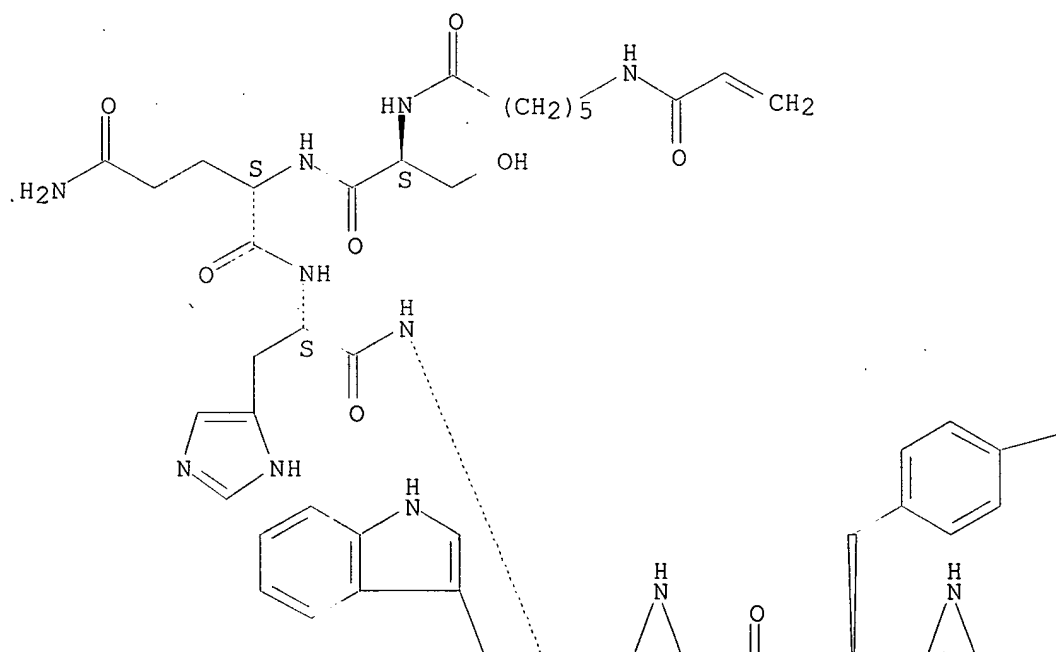


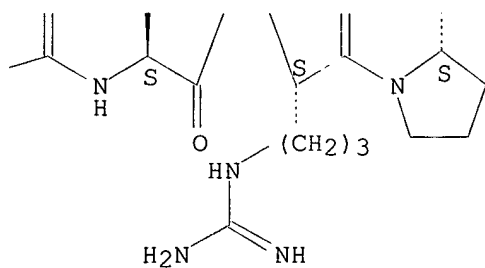
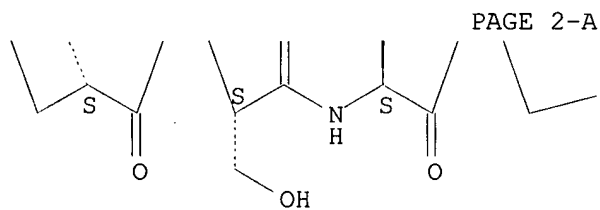
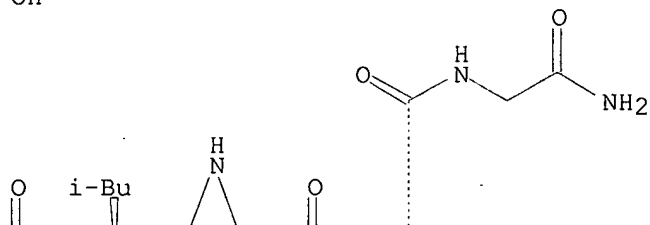
CM 2

CRN 186085-38-1

CMF C67 H96 N20 O17

Absolute stereochemistry.

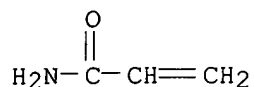




CM 3

CRN 79-06-1

| | | | | |
|-----|----|----|---|---|
| CMF | C3 | H5 | N | O |
|-----|----|----|---|---|



RN 186085-70-1 CAPLUS

CN L-.alpha.-Glutamine, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutamyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-argininamide and 2-propenamide (9CI)
(CA INDEX NAME)

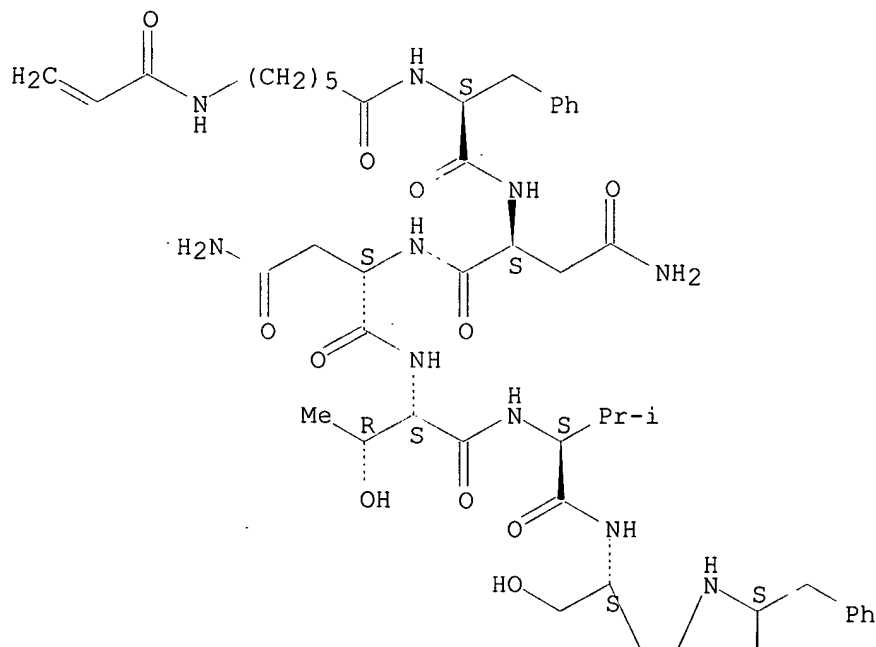
CM 1

CRN 186085-41-6

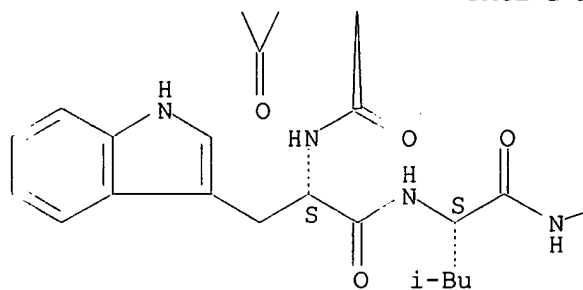
CMF C117 H177 N31 O30

Absolute stereochemistry.

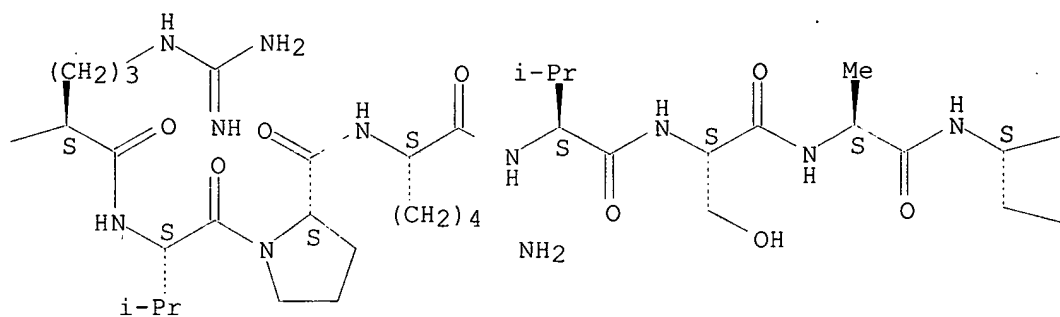
PAGE 1-A



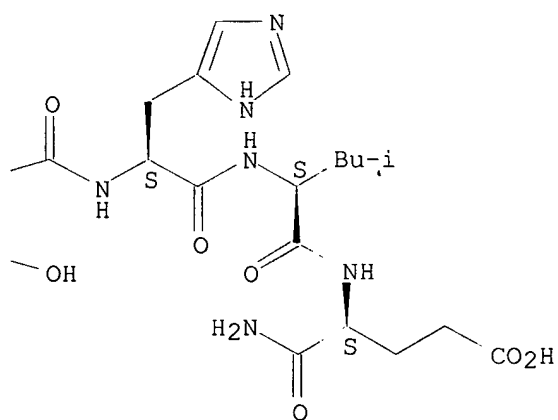
PAGE 2-A



PAGE 2-B



PAGE 2-C

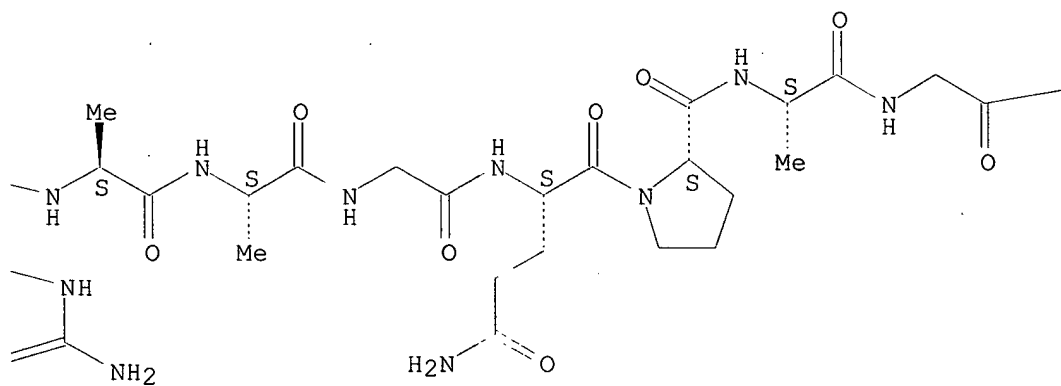
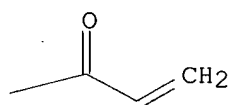
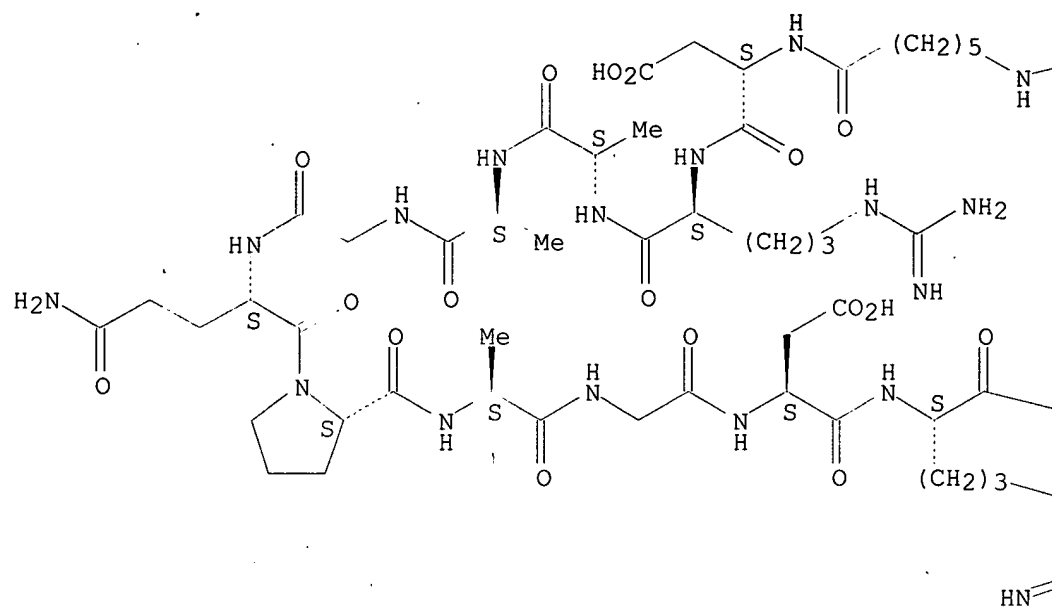


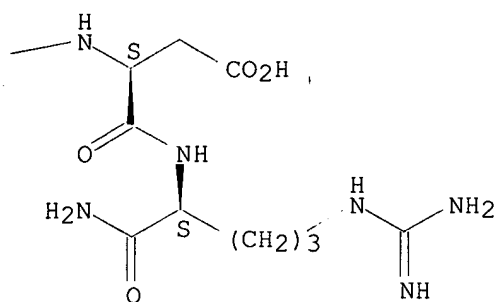
CM 2

CRN 186085-39-2
CMF C85 H139 N33 O30

Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

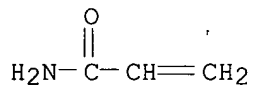




CM 3

CRN 79-06-1

CMF C3 H5 N O



RN 186085-72-3 CAPLUS

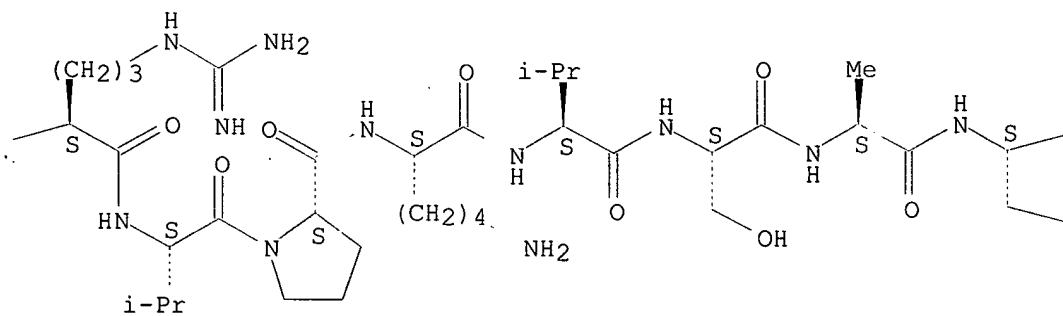
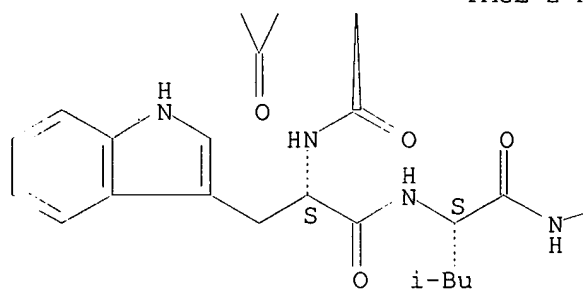
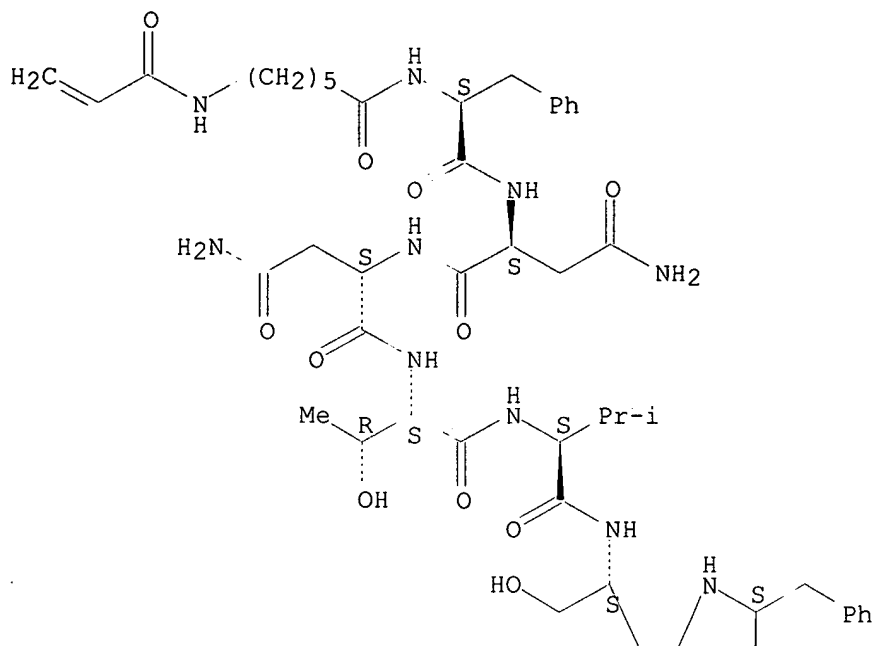
CN L-Prolinamide, N2-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-L-prolyl-L-asparaginyl-L-alanyl-L-asparaginyl-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutaminyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-arginyl-L-alanyl-L-alanylglycyl-L-glutaminyl-L-prolyl-L-alanylglycyl-L-.alpha.-aspartyl-L-argininamide, N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-phenylalanyl-L-asparaginyl-L-asparaginyl-L-threonyl-L-valyl-L-seryl-L-phenylalanyl-L-tryptophyl-L-leucyl-L-arginyl-L-valyl-L-prolyl-L-lysyl-L-valyl-L-seryl-L-alanyl-L-seryl-L-histidyl-L-leucyl-L-.alpha.-glutamine and 2-propenamide (9CI) (CA INDEX NAME)

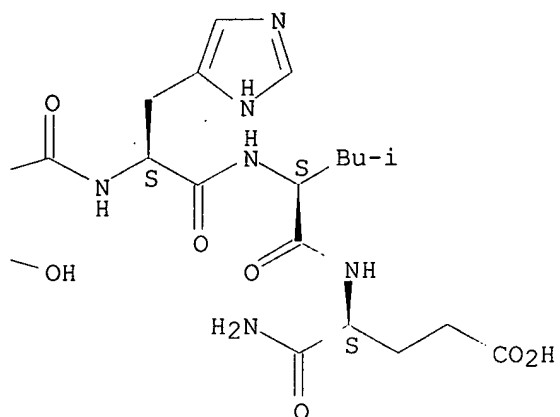
CM 1

CRN 186085-41-6

CMF C117 H177 N31 O30

Absolute stereochemistry.



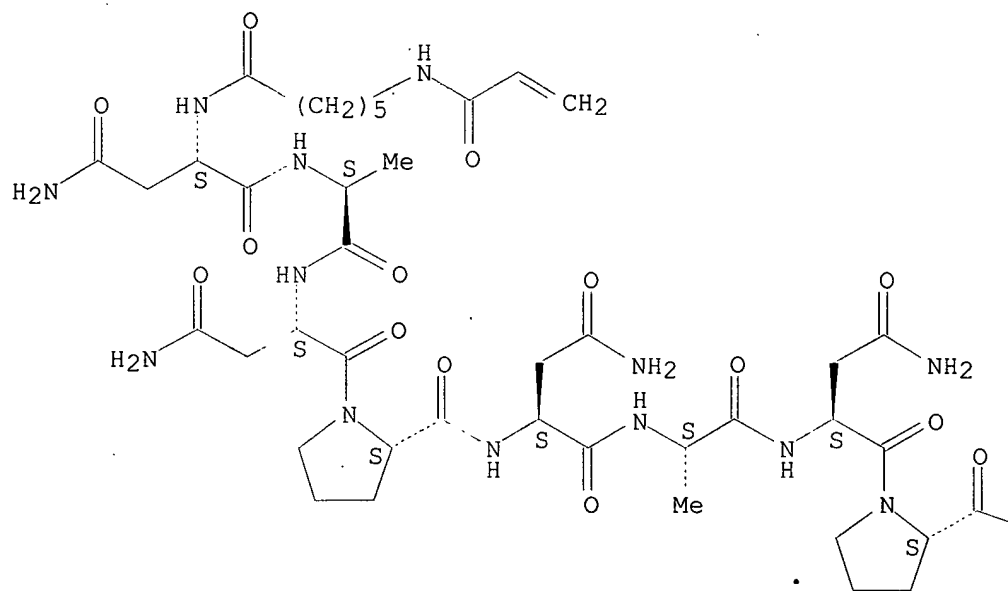


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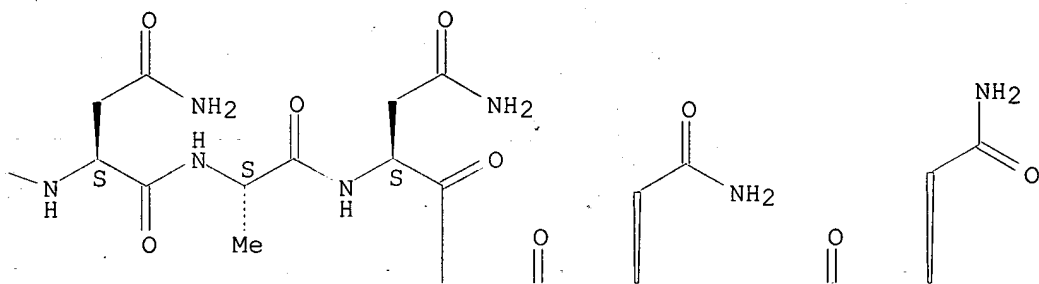
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CMF C89 H136 N32 O32

Absolute stereochemistry.



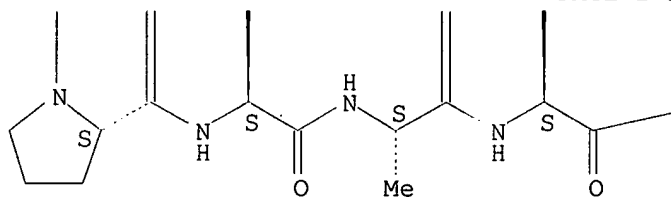
PAGE 1-B



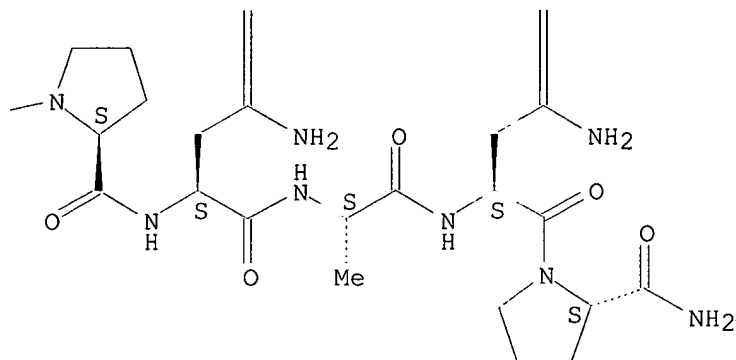
PAGE 1-C



PAGE 2-B



PAGE 2-C

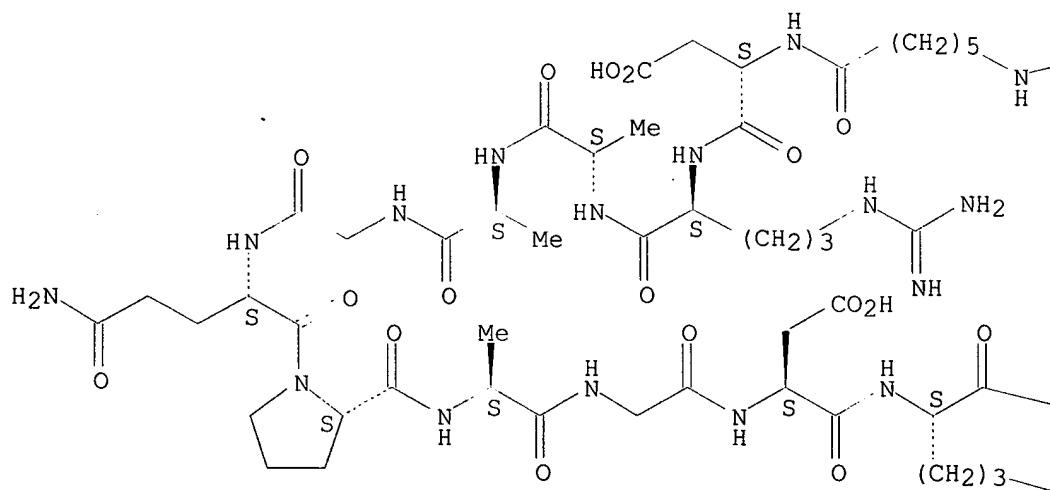


CM 3

CRN 186085-39-2
CMF C85 H139 N33 O30

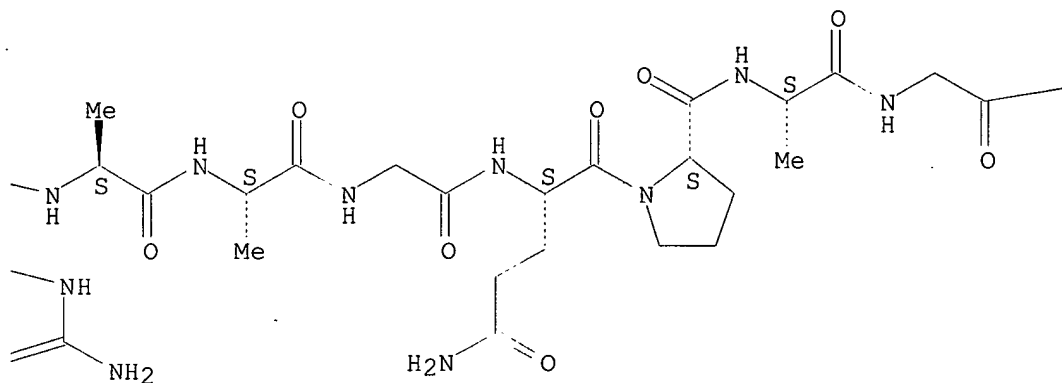
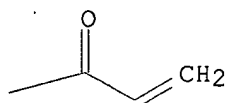
Absolute stereochemistry.

PAGE 1-A

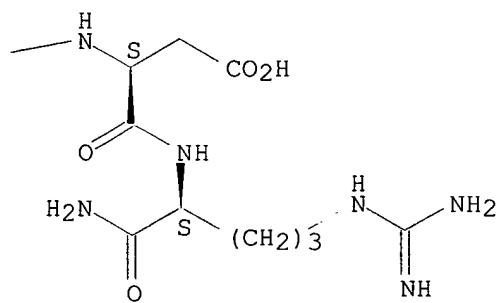


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PAGE 1-B



PAGE 1-C

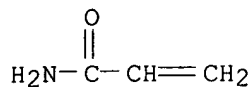


CM 4

CRN 79-06-1

CMF C3 H5 N O

Searched by: Mary Hale 308-4258 CM-1 12D16



RN 186085-77-8 CAPLUS

CN L-Lysinamide, L-.alpha.-aspartyl-L-cysteinyl-L-threonyl-L-leucyl-L-isoleucyl-L-.alpha.-aspartyl-L-alanyl-L-leucyl-L-leucylglycyl-L-.alpha.-aspartyl-L-prolyl-L-histidyl-N6-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-, polymer with N-[1-oxo-6-[(1-oxo-2-propenyl)amino]hexyl]-L-threonyl-L-tyrosyl-L-glutamyl-L-arginyl-L-threonyl-L-arginyl-L-alanyl-L-leucyl-L-valine and 2-propenamamide (9CI) (CA INDEX NAME)

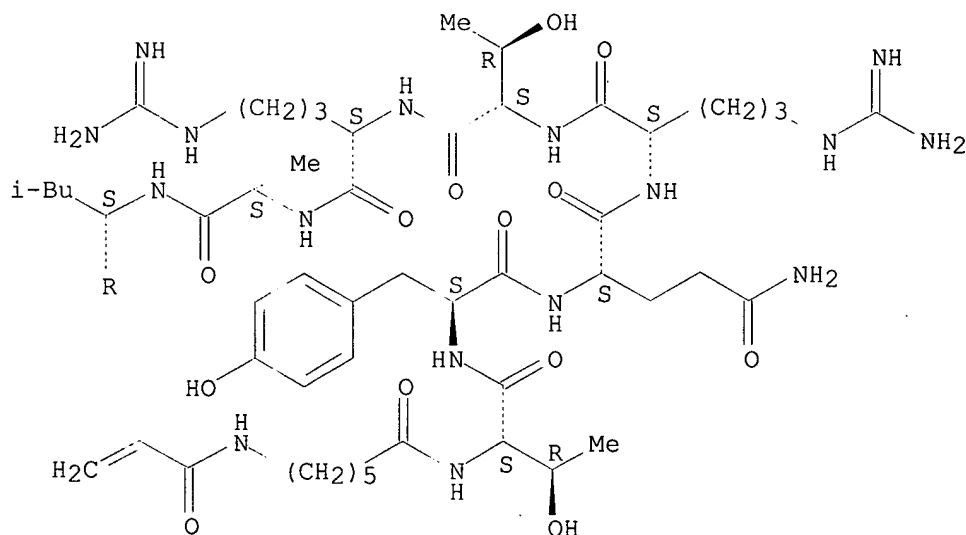
CM 1

CRN 186085-36-9

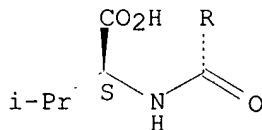
CMF C57 H95 N17 O16

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

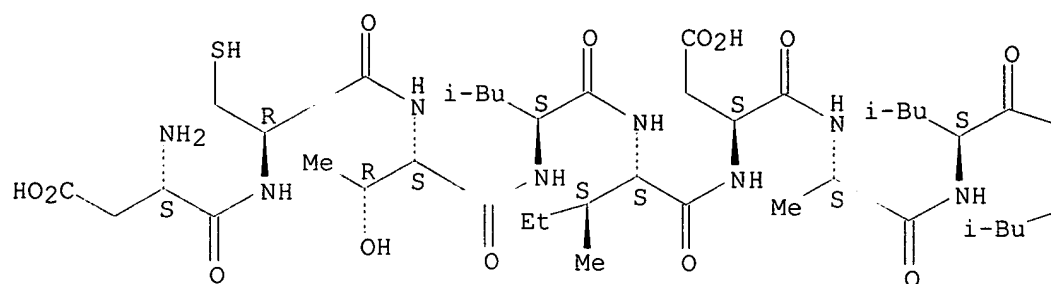
CRN 186085-35-8

CMF C74 H121 N19 O23 S

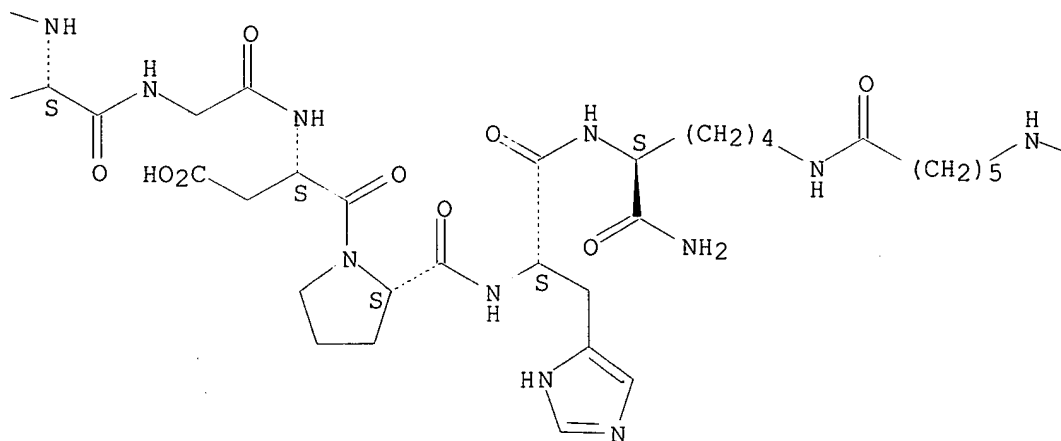
Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

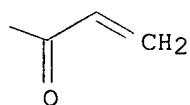
PAGE 1-A



PAGE 1-B

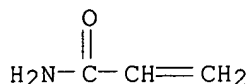


PAGE 1-C



CM 3

CRN 79-06-1
CMF C3 H5 N O



L28 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2001 ACS

1997:19991 Document No. 126:135536 Biological activity of luteinizing hormone releasing hormone after oral dosing with a novel nanoparticulate delivery system: copolymerized peptide particles. Hillery, Anya M.; Toth, Istvan; Florence, Alexander T. (Centre for Drug Delivery Research, School of Pharmacy, University of London, London, WCIN IAX, UK). Pharm. Sci., 2(6), 281-283 (English) 1996. CODEN: PHSCFB. ISSN: 1356-6881. Publisher: Royal Pharmaceutical Society of Great Britain.

AB The ability of a novel copolymeric nanoparticulate delivery system, co-polymerized peptide particles (CPP), to deliver a biol. active peptide via the oral route was investigated using the decapeptide LH releasing hormone (LHRH) as a model drug. Intact male Wistar rats (270 g, 9 wk old) were orally dosed via gavage for 14 days with either the CPP delivery system (contg. 1 mg LHRH/day), free LHRH in a buffer vehicle (1 mg LHRH/day) or saline. The seminal vesicle and prostate **wts.** of rats dosed with the CPP system were approx. 50% of the **wt.** of the same organs from rats dosed with saline or free LHRH. Repeated daily oral dosing with the CPP system also resulted in a statistically significant fall in serum testosterone concns., to approx. 55% of the control level. The results demonstrate that biol. active LHRH was absorbed after oral dosing with the CPP system, whereas the free peptide had no detectable biol. activity. The chem. conjugation of LHRH within this copolymeric nanoparticulate delivery system represents a viable approach to promoting oral absorption.

IT 186503-49-1

RL: BAC (Biological activity or effector, except adverse); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(biol. activity of LHRH after oral dosing with a nanoparticulate delivery system of copolymerized peptide particles)

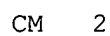
RN 186503-49-1 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 1-[5-oxo-1-(1-oxo-3-butenyl)-L-proline]-, polymer with butyl 2-cyano-2-propenoate and N-(1-oxo-3-butenyl)-L-phenylalanine-2,6-dimethyl ester (9CI) (CA INDEX NAME)

CM 1

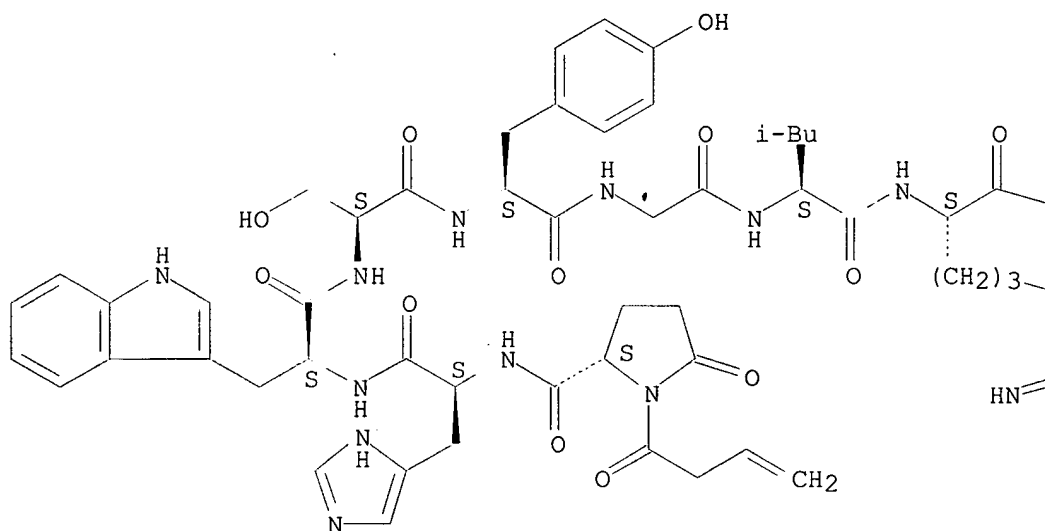
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CMF C14 H15 D2 N O3

Absolute stereochemistry.

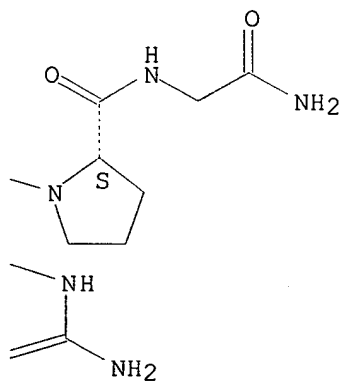


Absolute stereochemistry.

PAGE 1-A



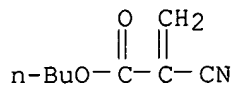
PAGE 1-B



CM 3

CRN 6606-65-1

CMF C8 H11 N O2



L28 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2001 ACS

1992:537523 Document No. 117:137523 Dose decrease of D-Phe6-GnRH for regulation of ovulation by formation of complexes with polyglycine. Naumann, W.; Braun, Karin; Losse, G. (Inst. Lebensmittelchem. Tech. Biochem., Tech. Univ. Dresden, Dresden, O-8027, Germany). Pharmazie, 46(11), 795-7 (German) 1991. CODEN: PHARAT. ISSN: 0031-7144.

AB The gonadotropin-releasing hormone (GnRH) analog D-Phe6-GnRH was complexed with polyglycine (mol. wt. 3000) by stirring together the 2 substances dissolved in HCO2H, followed by evapn. of the acid and drying the complex over KOH. The complex was more resistant than the free hormone to tryptic hydrolysis in vitro. In the ovulation test in mice in vivo, the complex acted as a slow-release prepn.; its ED50 was 34-fold less than that of the unprotected hormone.

IT 143336-97-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of and drug release and ovulation decrease from)

RN 143336-97-4 CAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-D-phenylalanine-, compd. with glycine homopolymer (9CI) (CA INDEX NAME)

CM 1

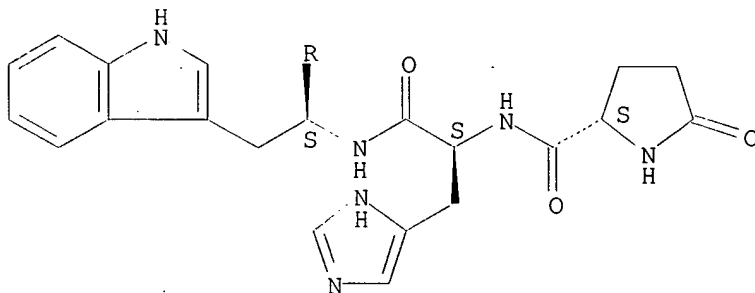
CRN 57521-78-5

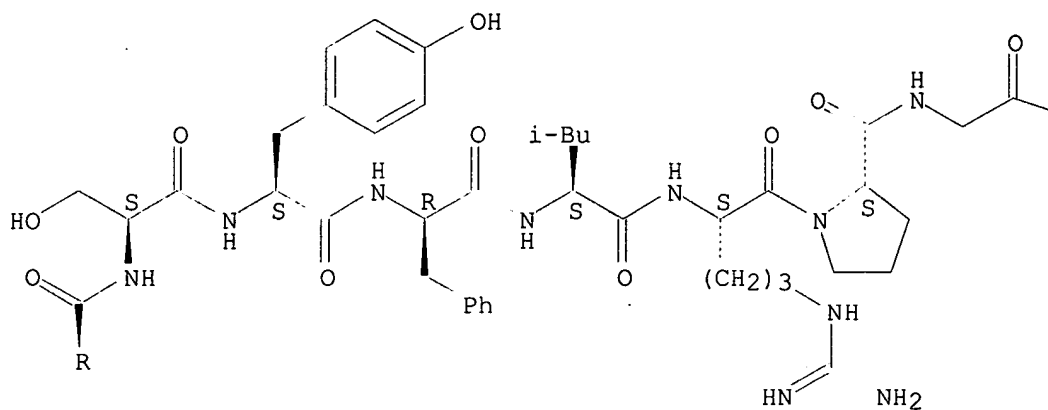
CMF C62 H81 N17 O13

CDES 5:L,L,L,L,L,D,L,L,L

Absolute stereochemistry.

PAGE 1-A





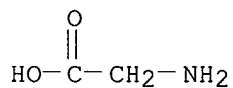
NH₂

CM 2

CRN 25718-94-9
CMF (C2 H5 N O2)x
CCI PMS

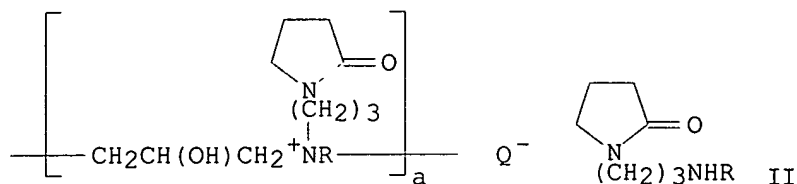
CM 3

CRN 56-40-6
CMF C2 H5 N O2



L28 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2001 ACS
1992:113314 Document No. 116:113314 Preparation of novel cationic lactam
polymers and 1-(3-alkylaminopropyl)-2-pyrrolidone intermediates as hair
conditioners. O'Lenick, Anthony J., Jr. (LCE Partnership, USA). U.S. US
5049680 A 19910917, 10 pp. (English). CODEN: USXXAM. APPLICATION: US
1990-518491 19900503.

GI



AB Title polymeric quaternary compds. I [R = Me(CH₂)_b, Me(CH₂)_c(CH:CH)(CH₂)_d, Me(CH₂)_eCHMe(CH₂)_f, Me(CH₂)_bOR₁(CH₂)₃, Me(CH₂)_dCHMe(CH₂)_eOR₁(CH₂)₃, Me(CH₂)_nCH[(CH₂)_mMe]CH₂OR₁(CH₂)₃; a = 2-125; b, c, d, e = 5-20; m, n = 4-20; R₁ = (CH₂CH₂O)_x(CH₂CHMeO)_y(CH₂CH₂O)_z; x, y, z = 0-20; Q = anion] are prep'd. Also given are the prep'n. of pyrrolidones (II). Me(CH₂)₁₁NH(CH₂)₃NH₂ and butyrolactone under 100 psig N were heated to 275.degree. for 8 h during which time the pressure rose to 480 psig to give II [R = Me(CH₂)₁₁] (III). III and H₂O followed by epichlorohydrin were reacted, such that the d.p. and mol. wt. were controlled by the pH; in this case addn. of NaOH kept the pH at 7-8 and the temp. was maintained at 85-95.degree. for 2-6 h. In a test to screen the wet comb properties of III-epichlorohydrin copolymer, the time needed to get 1 smooth free stroke without tangling was 11 s vs. 12-14 s for a typical std. quaternary compd. Both II and their copolymers were also tested as fabric softeners.

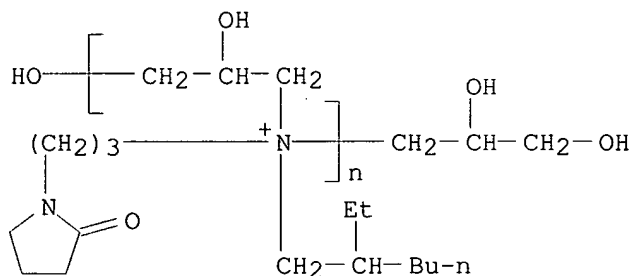
IT 138392-48-0P 138416-96-3P 138416-97-4P
138441-86-8P 139246-68-7P

RL: PREP (Preparation)

(prep'n. of, as hair conditioner)

RN 138392-48-0 CAPLUS

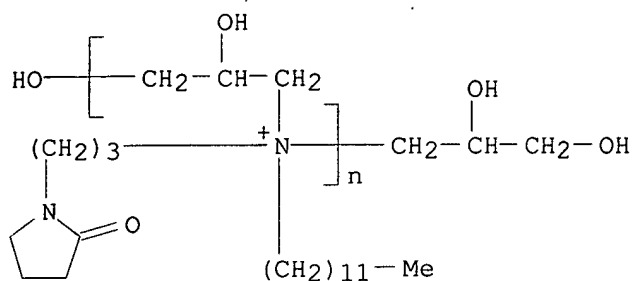
CN Poly[[(2-ethylhexyl) [3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)



● Cl⁻

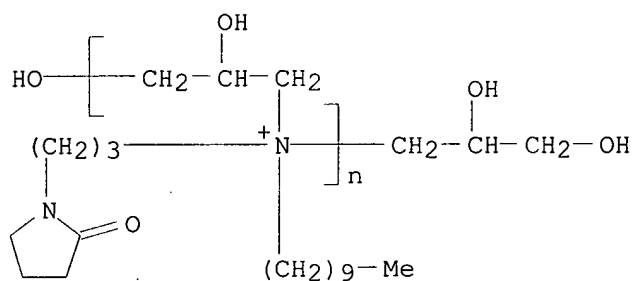
RN 138416-96-3 CAPLUS

CN Poly[[dodecyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)



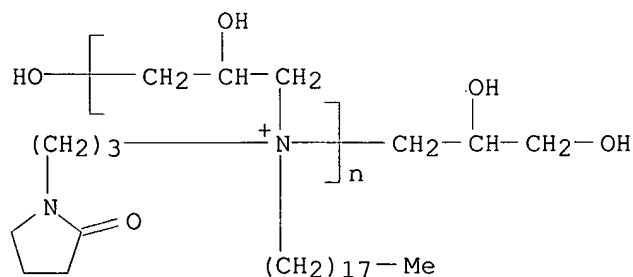
● Cl⁻

RN 138416-97-4 CAPLUS
 CN Poly[[decyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)



● Cl⁻

RN 138441-86-8 CAPLUS
 CN Poly[[octadecyl[3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)



● Cl⁻

RN 139246-68-7 CAPLUS

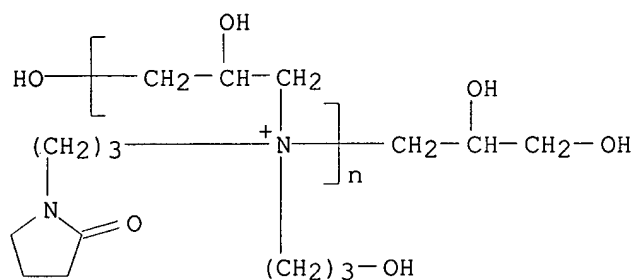
CN Poly[[(3-hydroxypropyl) [3-(2-oxo-1-pyrrolidinyl)propyl]iminio] (2-hydroxy-1,3-propanediyl) chloride], .alpha.-(2,3-dihydroxypropyl)-.omega.-hydroxy-, ether with methyloxirane polymer with oxirane mono(2-propylnonyl) ether (9CI) (CA INDEX NAME)

CM 1

CRN 174881-70-0

CMF (C13 H25 N2 O3)_n C3 H8 O3 . Cl

CCI PMS

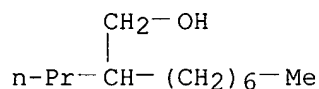


● Cl⁻

CM 2

CRN 54381-04-3

CMF C12 H26 O



CM 3

CRN 9003-11-6

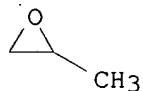
CMF (C3 H6 O . C2 H4 O)_x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8



L28 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2001 ACS

1990:100315 Document No. 112:100315 Acrylic pressure-sensitive adhesives.
 Ando, Masahiko; Sunakawa, Makoto (Nitto Denko Corp., Japan). Jpn. Kokai
 Tokkyo Koho JP 01193384 A2 19890803 Heisei, 5 pp. (Japanese). CODEN:
 JKXXAF. APPLICATION: JP 1988-18654 19880129.

AB Heat-resistant title adhesives with well-balanced adhesion and cohesion
 consist of branched polymers [contg. 50-100% CH₂:CR₁CO₂R₂ (R₁ = H, Me; R₂
 = C₂-14 alkyl)] whose wt. av. mol. wt. in gel
 permeation chromatog. by light scattering method (A) and polystyrene
 conversion (B) show relation A/B .gtoreq.1.3. Thus, a macromonomer prepd.
 from 2-ethylhexyl acrylate (I), Bu acrylate (II), thioglycollic acid, and
 glycidyl methacrylate was treated with I, II, and acrylic acid to give a
 graft copolymer (III) (A/B 1.36), which was used to make an adhesive tape
 showing peeling strength 1280 g/20 mm and good heat resistance, vs. 860
 and poor, resp., using II-Et acrylate copolymer (A/B 1.03) instead of III.

IT 125052-66-6P

RL: PREP (Preparation)

(manuf. of, for pressure-sensitive heat-resistant adhesives)

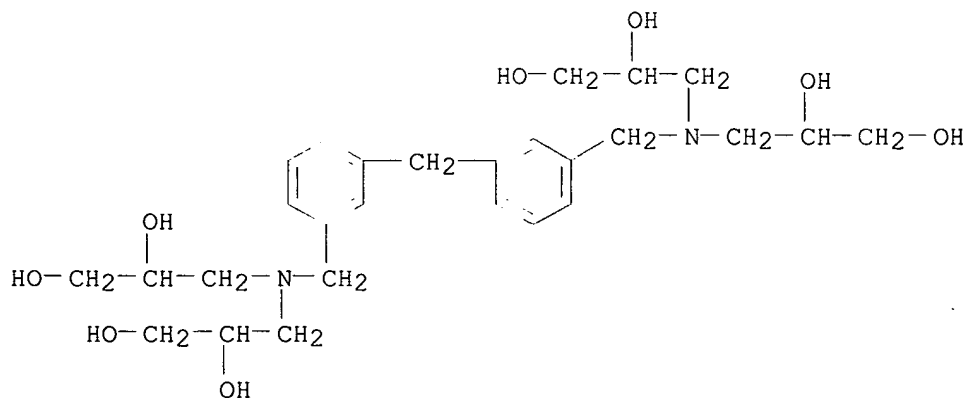
RN 125052-66-6 CAPLUS

CN 2-Propenoic acid, butyl ester, telomer with ethyl 2-propenoate and
 mercaptoacetic acid, ester with 3,3',3'',3'''-[methylenebis(3,1-
 phenylenemethylenenitrilo)]tetrakis[1,2-propanediol] (9CI) (CA INDEX
 NAME)

CM 1

CRN 192526-02-6

CMF C27 H42 N2 O8



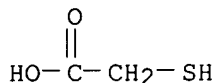
CM 2

CRN 192526-01-5

CMF (C7 H12 O2 . C5 H8 O2)x . C2 H4 O2 S

CM 3

CRN 68-11-1
CMF C2 H4 O2 S

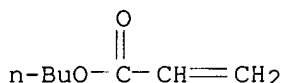


CM 4

CRN 26353-42-4
CMF (C7 H12 O2 . C5 H8 O2)x
CCI PMS

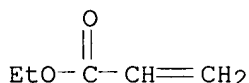
CM 5

CRN 141-32-2
CMF C7 H12 O2



CM 6

CRN 140-88-5
CMF C5 H8 O2



L28 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2001 ACS

1988:494880 Document No. 109:94880 Coating composition. Andrews, Adrian Ferguson; Hugh, Nicolas Saint John; Nunn, Michael John (International Paint PLC, UK). Eur. Pat. Appl. EP 259172 A2 19880309, 11 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-307814 19870904. PRIORITY: GB 1986-21472 19860905.

AB Title compn. for coatings with good resistance to impact and abrasion comprises anhydride polymer contg. .gtoreq.2 cyclic carboxylic acid anhydride groups, and polymer with anhydride-reactive groups, such as hydroxyalkylamino, hydroxyalkoxyalkylamino, OH-substituted (poly)acryloxyalkylamino, mercaptoalkylamino, and oxazolidino, either polymer contg. .gtoreq.1 flexible chain unit. Thus, condensing 28.6 g Ph glycidyl ether with 100 g bis(3-aminopropyl)polytetramethylene glycol (mol. wt. 2100) gave a .beta.-hydroxyalkylamine functional resin, 135.0 g of which was mixed with 112.0 g itaconic anhydride-Me methacrylate-styrene copolymer in anhydride/OH group mol ratio 1:1, coated on steel plates at 20.degree., and dried for 24 h to a flexible, clear, tack-free film.

IT 116107-90-5 116107-96-1

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, ambient-curable, on steel)

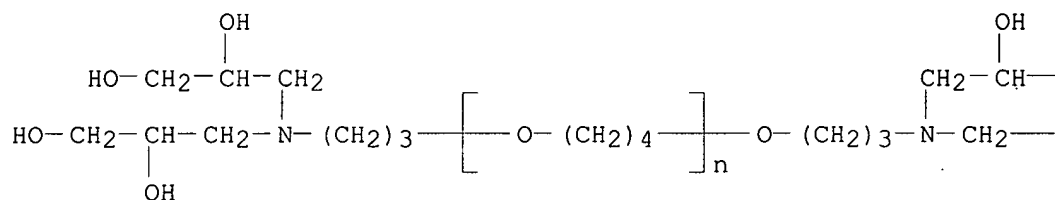
Searched by: Mary Hale 308-4258 CM-1 12D16

RN 116107-90-5 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 .alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-
 dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl),
 dihydro-3-methylene-2,5-furandione and ethenylbenzene (9CI) (CA INDEX
 NAME)

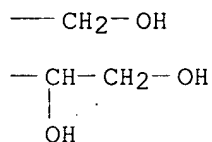
CM 1

CRN 116107-89-2
 CMF (C4 H8 O)n C18 H40 N2 O9
 CCI PMS

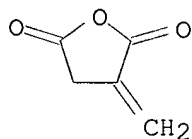
PAGE 1-A



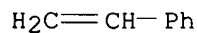
PAGE 1-B



CM 2
 CRN 2170-03-8
 CMF C5 H4 O3

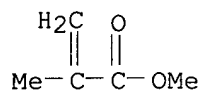


CM 3
 CRN 100-42-5
 CMF C8 H8



CM 4

CRN 80-62-6
CMF C5 H8 O2

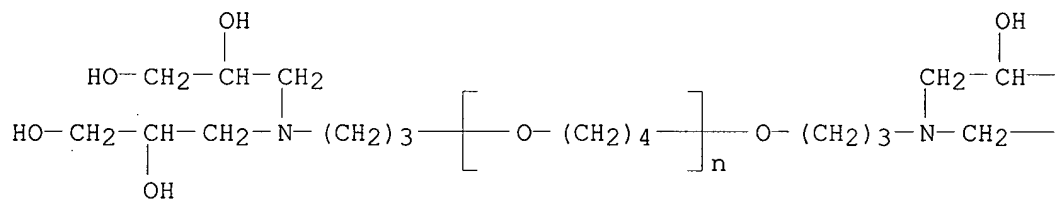


RN 116107-96-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
.alpha.-[3-[bis(2,3-dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-
dihydroxypropyl)amino]propoxy]poly(oxy-1,4-butanediyl), ethenylbenzene and
2,5-furandione (9CI) (CA INDEX NAME)

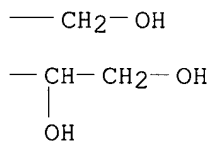
CM 1

CRN 116107-89-2
CMF (C4 H8 O)n C18 H40 N2 O9
CCI PMS

PAGE 1-A

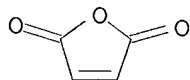


PAGE 1-B



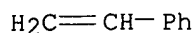
CM 2

CRN 108-31-6
CMF C4 H2 O3



CM 3

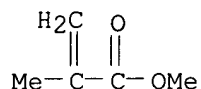
CRN 100-42-5
CMF C8 H8



CM 4

CRN 80-62-6

CMF C5 H8 O2



IT 116107-91-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and crosslinking of)

RN 116107-91-6 CAPLUS

CN Poly(oxy-1,4-butanediyl), .alpha.-[3-[bis(2,3-
dihydroxypropyl)amino]propyl]-.omega.-[3-[bis(2,3-
dihydroxypropyl)amino]propoxy]-, homopolymer (9CI) (CA INDEX NAME)

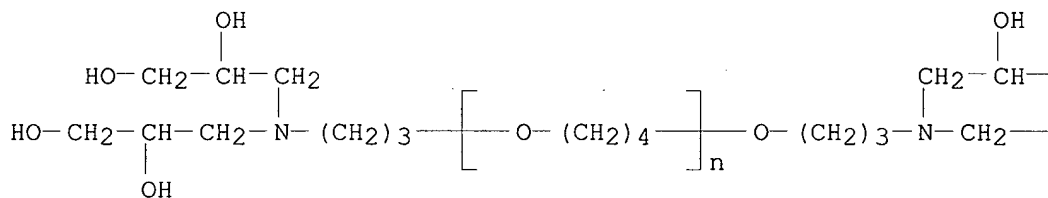
CM 1

CRN 116107-89-2

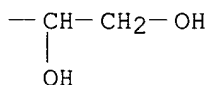
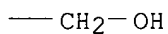
CMF (C4 H8 O)_n C18 H40 N2 O9

CCI PMS

PAGE 1-A



PAGE 1-B



L28 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2001 ACS

1982:8255 Document No. 96:8255 Alkyd resins containing amphi-ionic groups.
Mizuguchi, Ryuzo; Ishikura, Shinichi; Ishii, Kaizo (Nippon Paint Co., Ltd.
, Japan). Ger. Offen. DE 3043775 A1 19811029, 32 pp. (German). CODEN:
GWXXBX. APPLICATION: DE 1980-3043775 19801120. PRIORITY: JP 1980-56048
19800426.

AB Alkyd resins for coatings with improved viscosity and pigment dispersion
contain ammonium groups bearing sulfoalkyl or sulfoaryl substituents.
Thus, stirring linseed oil 994, pentaerythritol 183, and Pb naphthenate 15
parts 30 min at 240.degree., adding phthalic anhydride 321,

Searched by: Mary Hale 308-4258 CM-1 12D16

(HOCH₂CH₂)₂NCH₂SO₃H (I) 5.5, and xylene 45 parts, and stirring .apprx.2 h at 150-240.degree. with azeotropic distn. of H₂O gives an alkyd with acid no. 8.5, OH no. 50, oil length 658, mol. wt. 1800, and Gardner viscosity Z (70% xylene soln.). A ground mixt. of this resin 50, TiO₂ 27, CaCO₃ 10, Pb naphthenate 0.3, and aliph. solvent 8 parts is coated to 40-.mu. thickness (dry basis) on steel and dried at room temp. to give a film with tack free time 10 min, semicuring time 2 h, 60.degree. gloss (24 h) 93, and brightness very good, compared with 15, 3, 91, and good, resp., for a similar coating not contg. I.

IT 80297-70-7D, esters with fatty acids

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, with low viscosity)

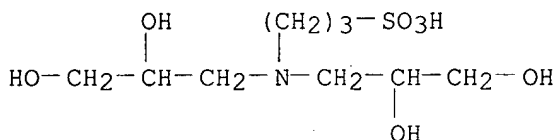
RN 80297-70-7 CAPLUS

CN 1-Propanesulfonic acid, 3-[bis(2,3-dihydroxypropyl)amino]-, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, 1,2-ethanediol and 1,3-isobenzofurandione (9CI) (CA INDEX NAME)

CM 1

CRN 80297-69-4

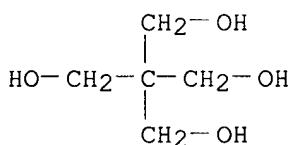
CMF C9 H21 N O7 S



CM 2

CRN 115-77-5

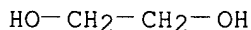
CMF C5 H12 O4



CM 3

CRN 107-21-1

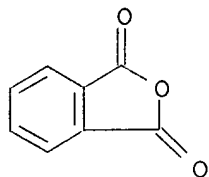
CMF C2 H6 O2



CM 4

CRN 85-44-9

CMF C8 H4 O3



L28 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2001 ACS

1976:17738 Document No. 84:17738 Octadecapeptide complex compound. Baba, Masaya; Hirata, Masaharu (Shionogi and Co., Ltd., Japan). Japan. JP 50017523 B4 19750621 Showa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 1969-71082 19690908.

AB A new octadecapeptide complex was prepd. by reacting a polyglutamic acid or its salt with X-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Y (X = residue of glycine or .beta.-alanine, Y = residue of L-arginine or L-argininamide or its salt). Thus, 2 mg Gly1-.beta.1-18-ACTH-NH2 acetate in H2O was treated with 2 mg L-polyglutamic acid (mol. wt. .apprx.5500) and the soln. neutralized with 0.3ml 0.1N NaOH to give a 5:1 complex of Gly1-.beta.1-18-ACTH-NH2 and L-polyglutamic acid. The blood level of 11-hydroxycorticosteroids in rat 2 hr after injection of the above complex was .apprx.35 .mu.g/dl compared with 5 .mu.g/dl for the starting Gly1-.beta.1-18-ACTH-NH2.

IT 57592-79-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 57592-79-7 CAPLUS

CN .alpha.1-18-Corticotropin, 1-glycine-18-L-argininamide-, compd. with L-glutamic acid homopolymer (9CI) (CA INDEX NAME)

CM 1

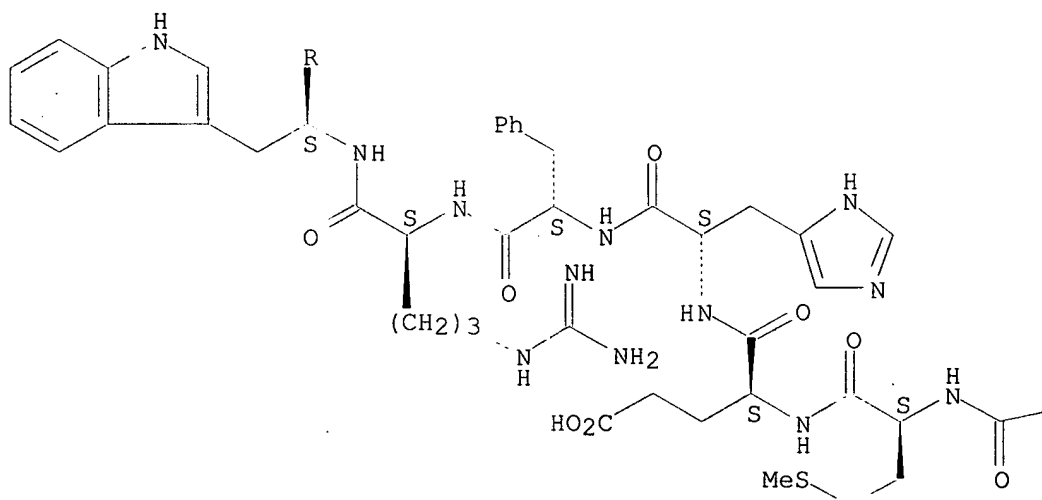
CRN 24870-04-0

CMF C100 H156 N34 O22 S

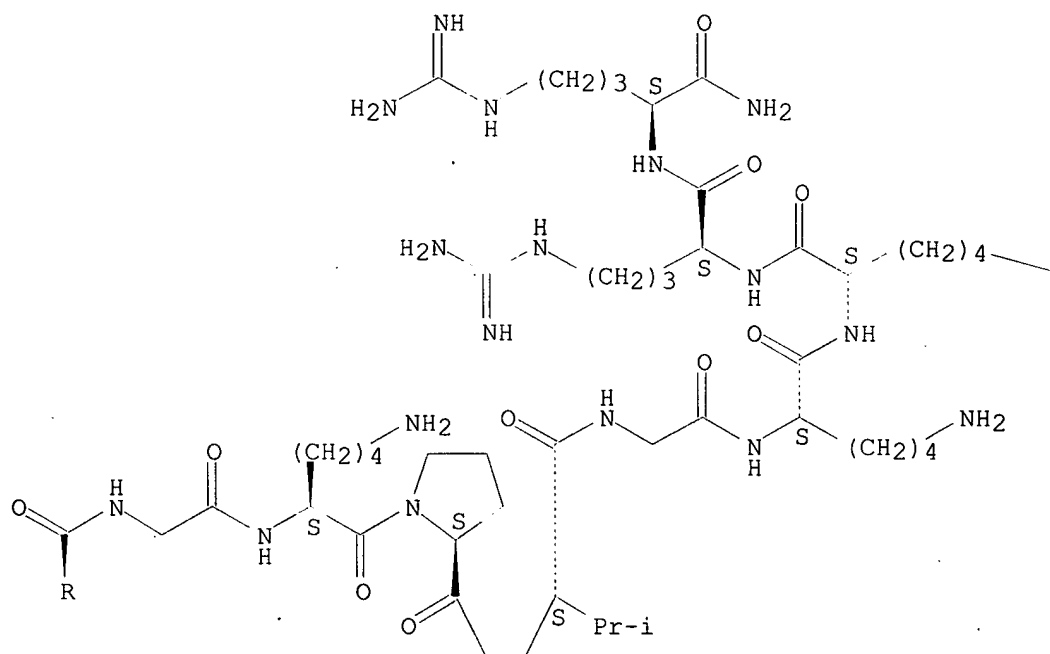
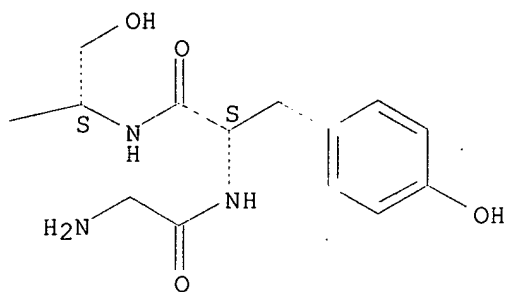
CDES 5:ALL,L

Absolute stereochemistry.

PAGE 1-A



Searched by: Mary Hale 308-4258 CM-1 12D16



—NH₂

CM 2

CRN 25513-46-6

CMF (C₅ H₉ N O₄)_x

CCI PMS

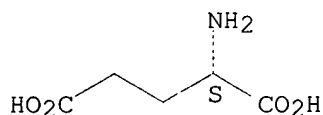
CM 3

CRN 56-86-0

CMF C₅ H₉ N O₄

CDES 5:L

Absolute stereochemistry.



L28 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2001 ACS

1972:547861 Document No. 77:147861 Long-lasting corticotropic action of [1-gly]-ACTH-(1-18)-octadecapeptide amide-poly-L-aspartic acid complex. Hirata, Masaharu; Tanaka, Akira (Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan). Chem. Pharm. Bull., 20(8), 1844-5 (English) 1972. CODEN: CPBTAL.

AB Complex formation of gly1-.alpha.1-18-ACTH amide [(1-glycine)-ACTH-(1-18) octadecapeptide amide] [24870-04-0] with poly-L-aspartic acid [25608-40-6] (mol. wt. 2300) in a ratio of 2:1, resp., prolonged the half-life of the amide in mice. Poly-L-aspartate-gly1-.alpha.1-18-ACTH amide complex [36955-68-7] exerted a long-acting corticotropic activity (6 hr) upon i.m. injection into hypophysectomized rats, whereas the effect of an equiv. amt. of gly1-.alpha.1-18-ACTH amide was no longer detectable 2 hr after injection, although the max. corticoid level was approx. the same. This depot-effect was not obsd. in animals pretreated with poly-L-aspartic acid 10 or 60 min before the amide. A prolonged corticotrophic action was also obtained by forming complexes of the

hormone with poly-L-glutamic acid [25513-46-6], copoly-L-tyrosyl-L-glutamic acid [31325-39-0], or polyethylene maleic acid [25085-79-4].

IT 36955-68-7 38891-25-7

RL: BIOL (Biological study)

(corticosteroids of blood plasma in response to, prolonged action of)

RN 36955-68-7 CAPLUS

CN L-Aspartic acid, homopolymer, compd. with 1-glycine-18-L-argininamide-
.alpha.1-18-corticotropin (9CI) (CA INDEX NAME)

CM 1

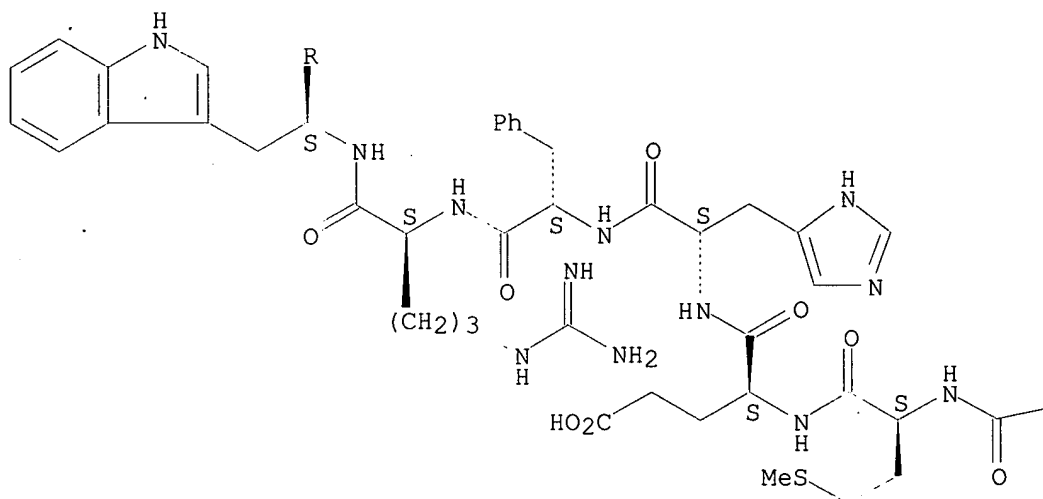
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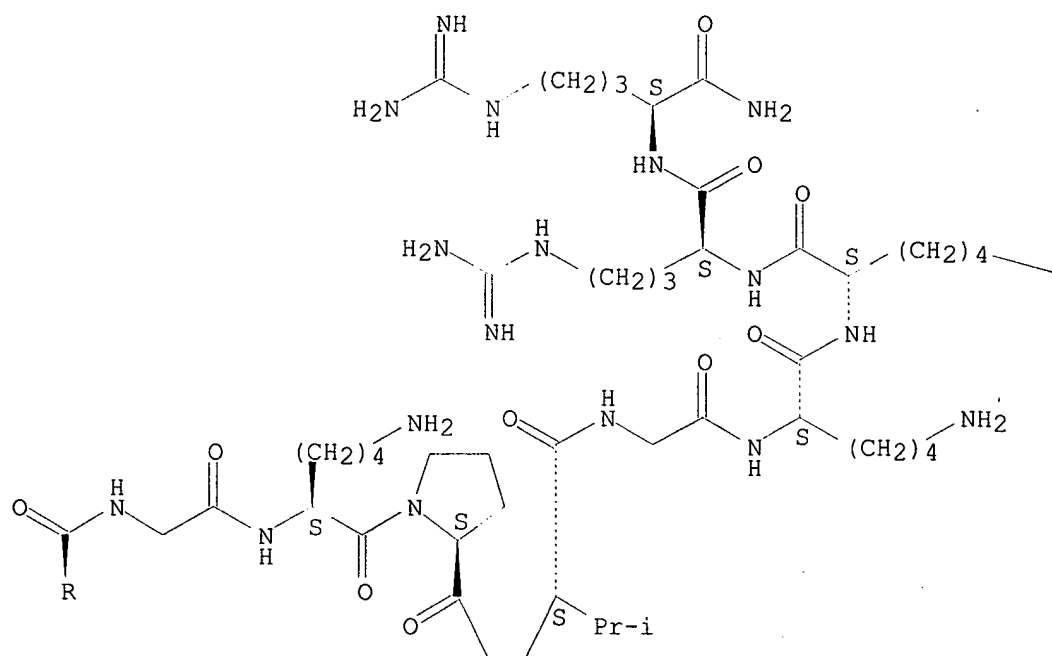
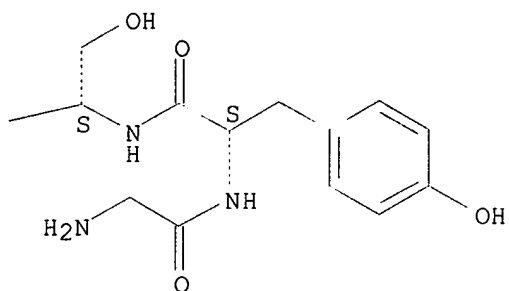
CMF C100 H156 N34 O22 S

CDES 5:ALL,L

Absolute stereochemistry.

PAGE 1-A







CM 2

CRN 25608-40-6

CMF (C4 H7 N O4)x

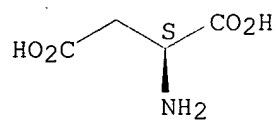
CCI PMS

CM 3

CRN 56-84-8

CMF C4 H7 N O4

Absolute stereochemistry. Rotation (+).



RN 38891-25-7 CAPLUS

CN .alpha.1-18-Corticotropin, 1-glycine-18-L-argininamide-, compd. with poly[imino[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

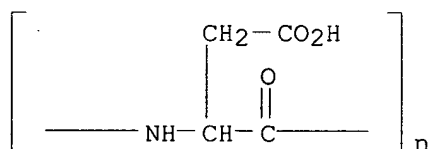
CM 1

CRN 26063-13-8

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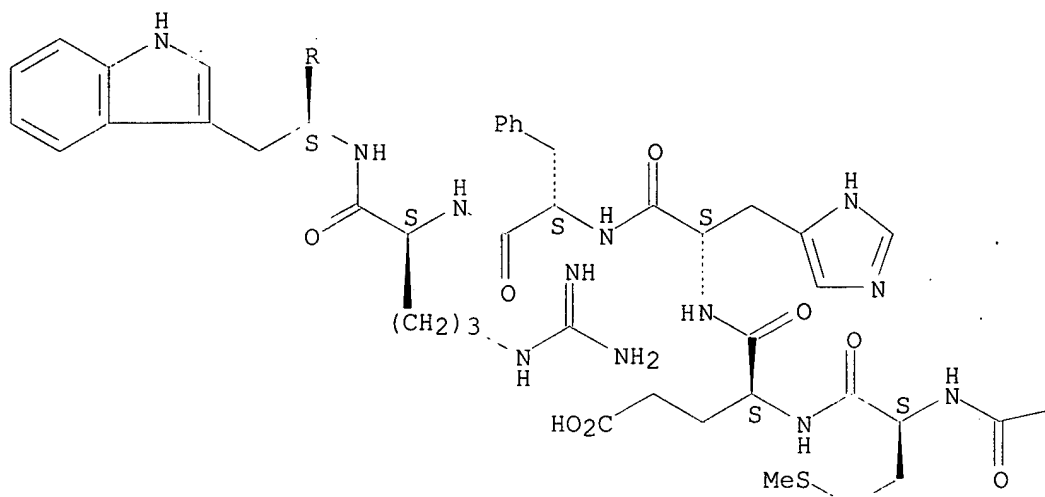
CCI PMS

CDES 1:S

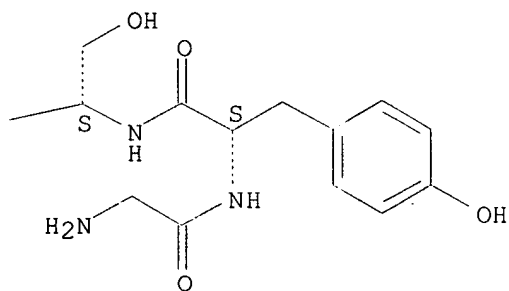


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CDES 5:ALL,L

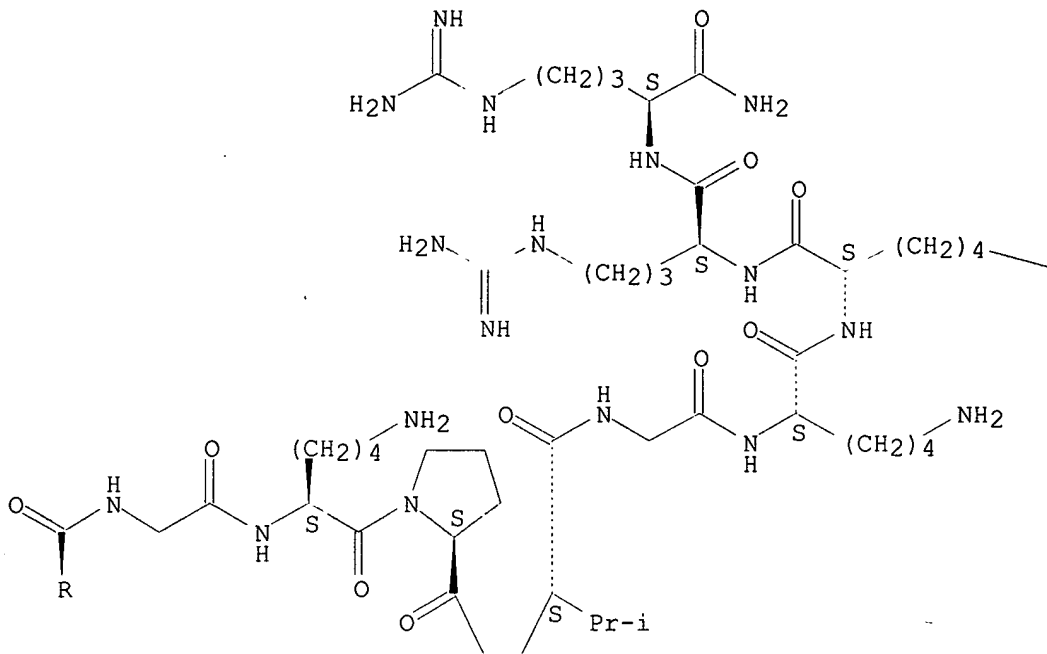
PAGE 1-A



PAGE 1-B



PAGE 2-A



PAGE 2-B

NH₂

PAGE 3-A



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

77.37

SINCE FILE

ENTRY

TOTAL

SESSION

1071.83

TOTAL

SESSION

Searched by: Mary Hale 308-4258 CM-1 12D16

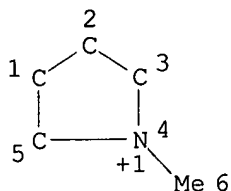
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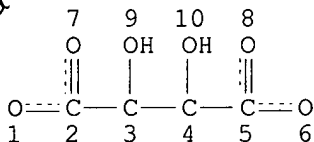
claim 76
=> d 112 que stat
L2 SCR 2043
L7 STR



NODE ATTRIBUTES:
CHARGE IS E+1 AT 4
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L10 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

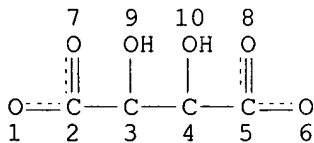
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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L12 0 SEA FILE=REGISTRY SSS FUL L10 AND L7 AND L2

100.0% PROCESSED 41 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

=> d 115 que stat;dis his
L10 STR

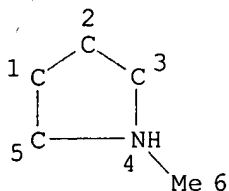


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

Searched by: Mary Hale 308-4258 CM-1 12D16

STEREO ATTRIBUTES: NONE
L13 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L15 0 SEA FILE=REGISTRY SSS FUL L13 AND L10

100.0% PROCESSED 3568 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

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FILE 'REGISTRY' ENTERED AT 16:37:42 ON 08 NOV 2001

| | |
|-----|---|
| L1 | STR |
| L2 | SCR 2043 |
| L3 | 0 S L1 AND L2 |
| L4 | 0 S L1 AND L2 FUL |
| L5 | STR L1 |
| L6 | 23 S L5 AND L2 |
| L7 | STR L1 |
| L8 | 8 S L7 AND L2 E TRATRATE/CN 5 E TARTRATE/CN 5 |
| L9 | 1 S E3 |
| L10 | STR |
| L11 | 0 S L10 AND L7 AND L2 |
| L12 | 0 S L10 AND L7 AND L2 FUL |
| L13 | STR L7 |
| L14 | 0 S L13 AND L10 |
| L15 | 0 S L13 AND L10 FUL |

=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

408.77

TOTAL

SESSION

408.92

STN INTERNATIONAL LOGOFF AT 16:45:07 ON 08 NOV 2001

Connection closed by remote host

Searched by: Mary Hale 308-4258 CM-1 12D16